

SMOKE SIGNALS

For Radio Amateurs • By Radio Amateurs

Published Monthly Since 1969 • Our 26th Year
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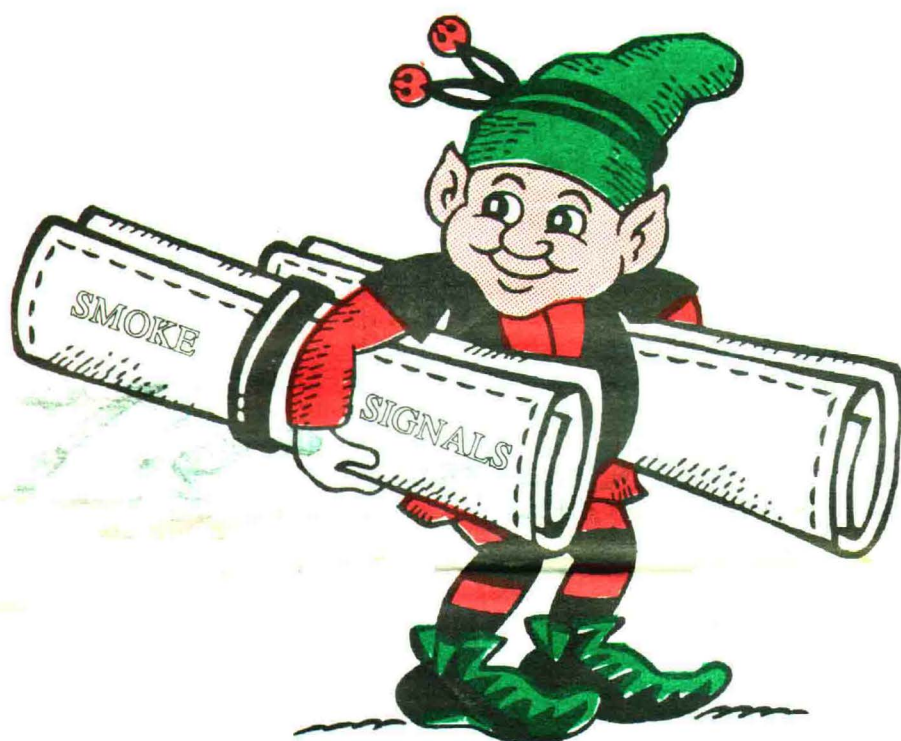
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Merry Christmas

and a Happy New Year



From the Badger State Smoke Signals staff

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PRODUCTION ASSISTANT AND ADVISOR

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EDITOR

Morse Code Requirement Stays

On October 23, the 1995 World Radiocommunication Conference, WRC-95, opened in Geneva. As described in November 1995 *QST*, page 106, one of the matters expected to be raised at the conference was a New Zealand proposal to delete from the radio regulations of the International Telecommunication Union the requirement that amateurs demonstrate Morse code ability in order to be licensed to operate below 30 MHz.

On Tuesday morning, October 31, New Zealand offered its proposal in Working Party 4C. While some other administrations expressed support, most who asked for the floor either opposed the change or said the time was not right and the issue needed further study within the amateur community.

Summarizing the discussion, the chairman of the Working Party said that most comments opposed the proposal and that he would send the matter to the Working Group of the Plenary, which is responsible for agendas of future conferences, to consider adding it to a future agenda in 1997, 1999, or later. This was acceptable to New Zealand.

WRC-95 was scheduled to complete its work on November 17. No conference decision is final until it has been approved in final form by the Plenary, usually late in the conference.

Amateur Radio is represented at the ITU by the International Amateur Radio Union. Present at WRC-95 are IARU president Richard Baldwin, W1RU, secretary Larry Price, W4RA, and Region 1 vice chairman Wojciech Nietyksza, SP5FM. ARRL Technical Relations Manager Paul Rinaldo, W4RI, is a member of the United States delegation, and other national delegations also have Amateur Radio representatives.

- From ARRL Bulletin ARLB100, 10/31/95

Morse code, the original binary code invented by Samuel F. B. Morse, has a new use: it is being used to provide people with communicative disorders a way to speak, to write, and help them in other ways. Dr. Tom King, WF9I, of the University of Wisconsin - Eau Claire, is a pioneer in this field. See "MORSE 2000" on page 7 of this issue. □

Ham Radio, JOTA, Camporees go Together

By Bill Fletcher, AF9B

4358 Crawford Drive, Madison, WI 53711-4849



The author (at right) explains his setup to the interested scouts.

- Photos courtesy Bill Fletcher/AF9B

On October 21, ham radio was one of the activities of the Boy Scout Camporees which were located near Blue Mounds and Baraboo. The Camporees were sponsored by the Mohawk and Yahara Districts, which are a part of the Boy Scouts of America (BSA) Four Lakes Council, Madison. Ham radio at this event was also in conjunction with the annual Jamboree on the Air (JOTA). The author is an Assistant Scoutmaster and Outing Coordinator for Troop 102, which is chartered to St. Maria Parish in Madison.

The author was set up in Brigham County Park, near Blue Mounds. The day was cold and snowy. Temperatures were in the 30s at best, with moderate winds. The station was protected from the weather by being located in a park shelter.

Please turn to page 9

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WHAT'S HAPPENING

✂ Swapfests and Other Social Events ✂ Club Meetings
✂ Amateur Radio Exam Schedules

EDITED BY KENNETH A. EBNER, K9EN, 822 WAUONA TRAIL, PORTAGE, WI 53901

Swapfests and Other Social Events

SUNDAY JANUARY 14, 1996. 24th Annual Midwinter Swapfest. Held at the Waukesha County Expo Center Forum, Waukesha, WI. Sponsored by the West Allis Amateur Radio Club. For information or reservations contact: WARAC Swapfest, P.O. Box 1072, Milwaukee, WI 53201. See also ad on last page.

TUESDAY, FEBRUARY 27, 1996. Red Cedar Repeater Association, Inc., American Legion Post 53, 634 Water St., Eau Claire, WI. Contact: Steve Hart, KA9OMC, E616 810th Ave., Knapp, WI 54749. (715) 665-2374.

SUNDAY, MARCH 10, 1996. SEWFARS Swapfest, Waukesha County Expo Center, Waukesha, WI. Contact: SEWFARS PO Box 102, Delafield, WI 53018. (414) 789-1034.

SUNDAY, JUNE 1, 1996. Adams County ARC Spring Hamfest, Friendship, WI. Contact: Adams County ARC, PO Box 232, Friendship, WI. Phone (608) 564-7887. Packet N9TD-1 on 145.03.

See also the back page and flyer ads for additional information on many of these events.

As a service to our readers, this section of *Badger State Smoke Signals* is available without charge to list your upcoming Swapfest, Hamfest, dinner, picnic, party or other event of interest to Radio Amateurs in Wisconsin and nearby areas. Send information on your event to Kenneth A. Ebner, K9EN, 822 Wauona Trail, Portage, WI 53901. In addition, space is available at attractive rates on our advertising pages. For information on rates and requirements for our advertising pages, please contact K9ZZ or K9EN.

Club Meetings



Due to space limitations, we cannot always carry the full listing of Wisconsin and area club meetings. Please see the

November 1995 meetings column for the latest complete listing. The following are additions or changes since that listing.

FALLS AMATEUR RADIO CLUB, INC

The Falls Amateur Radio Club, Inc. meets the last Wednesday of the month at the Bank One building in Germantown, WI at Pilgrim and Mequon Roads. The doors open at 7:00 p.m. and the meeting will begin at 7:30 p.m. !!GUESTS ARE WELCOME!!

YELLOW THUNDER AMATEUR RADIO CLUB (BARABOO)

Days rotate: The next YTARC meeting date is: Thursday, December 14, 1995. The meeting dates for 1996 are Jan 16, Feb 14, Mar 14, Apr 16, May 15, Jun 13, Jul 16, Aug 14, Sep 12, Oct 15, Nov 13, with the Holiday party scheduled for Friday December 13, 1996. All meetings will be at the Baraboo Civic Center, room 14, unless otherwise noted. Starting time for the monthly club meeting is 7:30 p.m.. The program start time after the meeting is 8:00 p.m., with a one hour limit.

In The bed department of a furniture store: "Our mattresses are for the rest of your life."

The Test Point



Amateur Radio Examination Locations
and Schedules in the Wisconsin Area

December 02, 1995	Oak Creek, WI (SWAT/MRAC)
December 02, 1995	Racine, WI
December 02, 1995	River Falls, WI
December 02, 1995	Stevens Point, WI
December 09, 1995	Madison, WI
December 16, 1995	Loves Park, IL
December 16, 1995	Milwaukee, WI (BADGER)
December 20, 1995	West Allis, WI (MRAC)
January 06, 1996	Oak Creek, WI (SWAT/MRAC)
January 13, 1996	Madison, WI
January 17, 1996	West Allis, WI (MRAC)
January 20, 1996	Loves Park, IL
January 27, 1996	Tomahawk, WI
January 27, 1996	Wauwatosa, WI (MRAC)
January 29, 1996	Milwaukee, WI (BADGER)
February 03, 1996	Oak Creek, WI (SWAT/MRAC)
February 10, 1996	Madison, WI
February 17, 1996	Loves Park, IL
February 17, 1996	Milwaukee, WI (BADGER)
February 21, 1996	West Allis, WI (MRAC)
February 24, 1996	Tomahawk, WI
February 24, 1996	Wauwatosa, WI (MRAC)
March 02, 1996	Oak Creek, WI (SWAT/MRAC)
March 09, 1996	Madison, WI
March 16, 1996	Loves Park, IL
March 16, 1996	Milwaukee, WI (BADGER)
March 20, 1996	West Allis, WI (MRAC)
March 23, 1996	Menomonie, WI
March 30, 1996	Tomahawk, WI
March 30, 1996	Wauwatosa, WI (MRAC)
April 20, 1996	Milwaukee, WI (BADGER)
May, 04, 1996	Milwaukee, WI (BADGER)
	Ozaukee Swapfest

Badger State

month. This material is to be sent to the Editor.

Where to Send It

Monthly, 1st Sat. Racine, WI
(except January, July & August)
Monthly, 1st Sat. Oak Creek, WI (SWAT/MRAC)
(except May, June, July & August)
Monthly, 2nd Sat. Madison, WI
Monthly, 3rd Wed. West Allis, WI (MRAC)
Monthly, 3rd Sat. Loves Park, IL
Monthly, Last Sat. Wauwatosa, WI (MRAC)
(except December)
Monthly, Last Sat. Tomahawk, WI
(January thru October only)
Quarterly Marshfield, WI
(Second Saturday every third month.)

QST de W1AW
ARRL Bulletin 101 ARLB101
From ARRL Headquarters
Newington CT November 1, 1995
To all radio amateurs

SB QST ARL ARLB101
ARRLB101 1996 VE test fees set

Effective January 1, 1996, the maximum allowable reimbursement fee for an amateur operator license examination will be 6.07 dollars. The FCC set this amount based on the Consumer Price Index between September 1994 and September 1995 and it will be an increase from the current 5.90 dollars.

Volunteer examiners and volunteer examiner coordinators may charge examinees for out of pocket expenses incurred in preparing, processing, administering, or coordinating reexaminations for amateur operator licenses. The amount of any such reimbursement fee from any one examinee for any one examination session, regardless of the number of

Smoke Signals

Amateur
Education and

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Baraboo, WI 53913. Telepho

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Baraboo, WI 53913-0337.

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5003 South 26th Street, Mil

Subscrip

1 year (12 issues)
2 years (24 issues - sa
3 years (36 issues - sa

Special club package reduced
information, contact Ken Eb

When to

The closing date for each
month for the next month's
closing date for the June iss

The only exception is for
participating clubs are requeste
later than FIVE DAYS after
example, if a club meets on t
material should be sent no l

Signals

Radio Information

ter, K9EN, 822 Wauona
phone (608) 742-3560.

9ZZ, 412 1/2 Ash Street,
ne (608) 356-4031.

B9UQT, P.O. Box 337,

hward R. Regent, K9GDF,
waukee, WI 53221.

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I rates are available. For
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Send It

ssue is the first of the
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to send their material no
the club's meeting. For
he 4th of the month, the
ter than the 9th of that

Address changes and corrections should be sent
to Ken Ebner.

Editorial material, photographs, feature articles,
display ads, and exchange papers should be sent to
Jim Romelfanger.

Inquiries about advertising should be directed to
Ken Ebner.

Swapfest information should be sent to Ken
Ebner. Swapfest ads should be sent to Jim Romel-
fanger.

Subscriptions should be sent, with check or
money order, to Jim Decker.

Conditions for Reprinting or BBS Posting Material from Badger State Smoke Signals

Permission is hereby granted to reprint articles or
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Signals* is incorporated as a Wisconsin non-stock, non-
profit organization.

Editorial Disclaimer

The opinions expressed in editorials, guest editorials,
columns, articles, and letters from readers are the
opinions of the authors only, and do not, unless
otherwise stated, express or imply endorsement by
Badger State Smoke Signals, or by any other in-
dividual or organization.

elements administered, must not exceed the maximum allowable fee.

Many Swapfests/Hamfests offer exam sessions. If not shown above contact the sponsoring club in the Swapfest column on page 2.

The FCC now requires applicants to show their ORIGINAL AMATEUR LICENSE to the VEC. A copy of your license must be attached to your FCC form 610. You will also be required to have a photo ID, or other acceptable identification.

GENERAL RULES

FOR MOST EXAMINATIONS:

Be sure to check with sponsors in the event there are changes and/or errors in the dates or information given.

Some examinations require filing an FCC Form 610 and advance registration at least 30 days before the exam date. (Some VECs permit walk-ins. Check with sponsor.)

To register, you must first secure a copy of the current FCC Form 610 and fill it out completely (AND CORRECTLY). Get your form from an FCC Field Office, the ARRL. Send a 32c/ SASE if you request one from the ARRL. In most cases, forms can also be obtained from the sponsoring group.

ARRL/VEC examinations require a check for \$5.90 payable to "ARRL/VEC". The FCC now requires applicants to show their ORIGINAL AMATEUR LICENSE or CSCE to the VEC. You must also have two good copies of your license or CSCE. A copy of your license or CSCE must be attached to your FCC form 610 and most VEC want a copy for their records. You will also be required to have a photo ID, or other acceptable identification.

Technician class licensees must show proof of testing before March 21, 1987, in order to upgrade to General with a code test only.

Additional information is given below.

MILWAUKEE RADIO AMATEURS' CLUB (MRAC/VEC)

OAK CREEK, WI (SWAT -MRAC/VEC)

FIRST SATURDAY DATES (No exams June, July or August. May exam on 2nd Sat at 1:00 p.m.): 3:30 p.m. at 6560 S. 27th St., Oak Creek, WI. (2 -blocks south of College.) (MRAC fee \$5.00)

THIRD WEDNESDAY DATES: At 6:30 p.m. Manor at Park, 3023 S 84th St., West Allis, WI.

LAST SATURDAY DATES (except December): 9:00 a.m. at 7500 W. State St., Wauwatosa S&L, lower level, Wauwatosa, WI.

For Additional Information Contact; Jack Krause, (414) 774-6999 or call (414) 466-HAMS (Answering Machine) or write MRAC, 1737 N. 116th St., Wauwatosa, WI 53226.

Bring along your ORIGINAL license, CSCE and two (2) good quality photocopies, plus two forms of identification, such a driver's license, etc. Also required is \$5.00 for the exam fee. WALK-INS are welcome. To register in advance, use a post card: print the grade of license you are applying for, and your name, address, and telephone number. Send the card to MRAC/VEC, c/o Jack Krause, W9JK, or Les Peterson, W9YCV at the addresses shown above.

BADGER EXAMINERS (BE) - MILWAUKEE

Amateur exams: 1:00 p.m. to 4:00 p.m.

Commercial exams: 9:00 a.m. to 12:00 noon.

Unless otherwise noted at WMVS-TV studios, MATC Downtown campus in the C building starting at 9:00 a.m. for commercial exams and Amateur exams at 1:00 p.m. the same day. The address is 1036 N. 8th Street, Milwaukee. Enter at the North West entrance of C Building. Walk-ins are welcome. To register in advance, send a post card with your name, test or tests you wish to take, date you wish to take., your call sign, address and telephone number to Badger Examiners, Gary J. Sharbuno, WI9M, 5119 W. Willow Rd., Brown Deer, WI 53223. Telephone (414) 355-0237. Also available FCC General Radio Telephone Commercial exams. Fees are \$5.90 for the Amateur Radio exams and \$35.00 for the commercial exams.

MADISON, WI

VE exams are held in Madison every second Saturday morning (September through May) of the month at 8 a.m. They are held at the operations building of the Madison Metropolitan Sewerage District at 1610 Moorland Rd. To get there take the Beltline (Hwy 12 & 18) to South Towne Drive. Go south 8/10 mile till South Towne Drive makes a bend and becomes Moorland Rd. and enter at gate.

You should bring a picture ID, your original licence and a copy of your licence. For exams beyond

the novice tests, bring a check for \$5.90, made out to the ARRL/VEC. If the special 610 form with the medical exemption is required, contact me beforehand to obtain one. No appointments are necessary to take exams. For further questions, please leave a message on the mailbox or phone me at (608) 832-6631.

Mark Jenks, NZ9B

RIVER FALLS, WI

Held in the church basement at the United Methodist Church, 127 South 2nd St., River Falls, WI. Contact: Chuck Kelly, KA9YRV, 234 W Cascade Ave., River Falls, WI 54022.

REDGRANITE, WI (W5YI VEC)

Test sessions are held in Redgranite on the second Saturday of each month, at the Civic Center, 202 Pine River rd., just off Highway 21. Testing begins at 9:00 a.m. Breakfast meeting at 8:00 a.m. at the Curve on Highway 21 prior to testing session. All Amateurs are welcome at the breakfast. Contact Terry Lynn Witt, AA9BA, 9145 Ivy Lane, Berlin, WI 54923.

RACINE, WISCONSIN - ARRL/VEC

Monthly - first Saturday, except January, July, and August.

Monthly exams are given 9:00 to 11:00 a.m. at the Red Cross Building, 4521 Taylor Avenue, Racine. Walk-ins are permitted.

Inquiries and registrations should be directed to William Firchow, Jr., NW9P, 1912 27th Street, Kenosha, WI 53140, telephone (414) 658-8390.

TOMAHAWK, WI

Last Saturday of every month. Jan. thru Oct.

Tomahawk Volunteer Examiners (ARRL/VEC). Tomahawk, WI. No preregistration required, but appointment would be appreciated. Registration at 8:30 a.m. and testings starts at 9:00 a.m. For location or other information, inquire on 145.43 MHz. repeater or contact: Terry Collins, KB9AUP, W6564 Highway 8, Tomahawk, WI 54487. Telephone (715) 453-4633.

STEVENS POINT, WI

Contact: Joe Larson, N9JW. (715) 344-1182.

APPLETON, WI - ARRL/VEC

MANITOWOC, WI (HAMFEST)

KAUKAUNA, WI (HAMFEST)

Conducted by the Fox Cities ARC VE team. All test session in Appleton are held at James Madison Jr. High, 2020 S. Carpenter Street. Candidates check in between 8 and 9 a.m. with testing starting at 9 a.m. No walk-ins after 9 a.m. Contact George R. Croy, W9MDP, 2113 Twin Willows Drive, Appleton, WI 54914. (414) 730-0967.

MENOMONIE, WI

The Menomonie VEC will be sponsoring exams from 9:00 to 11:30 a.m. at the UW Stout Communication Center, 820 South Broadway, Menomonie, WI. Use the north entrance. Walk-ins only. Contact Jim Ley, NX9F. Work: (715) 232-1397, Home: (715) 235-3998.

MARSHFIELD, WI (ARRL/VEC)

Sponsored by the Marshfield Area ARS. Held at St. Joseph Hospital, 611 St. Joseph Ave., in the 1 West classroom located adjacent to the Westwood Cafeteria on the main floor of the hospital. Use the main entrance or any other entrance and follow the signs to the cafeteria. Registration starts at 8:30 a.m. with testing starting at 9:00 a.m. Talk in on the 147.18 Marshfield repeater. Walk-ins welcome. Contact: Walter Friant, WBOKIN, 2310 Wallonie Drive, Marshfield, WI 54449 (715) 387-3870.

GREEN BAY, WI (ARRL/VEC)

Contact N9NOF, Keith Summers, 918 Bluebird St., De Pere, WI 54115. (414) 336-6087, after 4:00 p.m.

FOND DU LAC, WI

Sponsored by the Fond du Lac Amateur Radio Club. From 9:00 a.m. to Noon at the Community United Methodist Church located at 701 Minnesota Ave., in North Fond du Lac, WI. All level tests, walk-ins welcome. Contact: Doug Schultz, N9EFZ, (414) 992-3088.

BARABOO, WISCONSIN

Location: Public Library, Baraboo, WI. Contact: Steve Schwoegler, WB9RNL, (608) 254-2895.

CEDARBURG, WI - ORC HAMFEST

EAU CLAIRE, WI - ECARC HAMFEST

GREEN BAY, WI - ARES HAMFEST

KAUKAUNA, WI - SWAPFEST

MANITOWOC, WI, LAKESHORE HAMFEST

MARSHFIELD, WI - HAMFEST

OAK CREEK, WI - SMARC HAMFEST

RACINE, WI - BIG BOY TOY SHOW

RHINELANDER, WI - NWARC SWAPFEST

ROCKFORD, IL - RARC HAMFEST

ROTHSCHILD, WI - WVRA HAMFEST

SOUTH MILWAUKEE, WI - SMARC HAMFEST

STEVENS POINT, WI - CWRA SWAPFEST

WAUKESHA, WI - KMRA SWAPFEST

WAUKESHA, WI - MIDWINTER SWAPFEST

DUBUQUE, IA - HAMFEST

See the Swapfest column for additional information and contact persons.

GREAT RIVER AMATEUR RADIO CLUB

DUBUQUE, IOWA - ARRL/VEC

The Great River Amateur Radio Club VEs are now field stocked, which means retests can be given immediately.

Exams are held at 9:00 am at the Central Fire Station, 9th and Central in Dubuque. Use the basement entrance on 9th street. For more info, contact: Carl Clark, NOKAX, 145 Delicia Drive, Dubuque, IA 52001. Or call Carl at 319-557-9149. Talk-ins are on the 147.84/24, 147.63/03 and 146.295/895 repeaters.

LOVES PARK, IL

Third Saturday of every month. Northern Illinois Volunteer Examiners (W5YI VEC). Held at North Suburban District Library, 6340 North Second St. (Hwy. 251), Loves Park, IL. Contact: Dennis G. Eksten, W9SS, (815) 877-6768.

MINNESOTA TEST INFORMATION

From The Ground Wave, Saint Paul Radio Club.

Saint Paul Radio Club (SPRC)

Contact: Jay Bellows, KQBE (612) 222-7253.

Test Site: St. Luke School

1065 Summit Ave.

St Paul, MN

(Parking & entrance in back)

TESTING: First Saturday of the month, 8:30 a.m.

Anoka Amateur Radio Club (AARC)

Contact: Tom Cunningham, N10H (612) 537-2649

Test Site: Blaine City Hall, Blaine MN

TESTING: Second Saturday of the month, 9:00 a.m.

Bloomington Amateur Radio Club (BARC)

Contact: Jerry Jensen, WTOW (612) 888-6187

Test Site: Creekside Community Center

98th & Penn Avenue S

Bloomington, MN

TESTING: Second Saturday of the month, 9:00 a.m.

Valley Amateur Radio Club (VARC)

Contact: Paul Ramey, WGOG (612) 432-1640 or

Bill Martin, KAOCIR (612) 532-0438

Test Site: Hayes Community Center

14601 Hayes Road

Apple Valley, MN

TESTING: Second Thursday of the month 6:30 p.m.

W5YI

Contact: Dave Ranney, NOAXL (612) 936-9850

Test Site: Eden Prairie Library

479 Eden Prairie Drive

Eden Prairie, MN

TESTING: Third Tuesday of the month 6:30 p.m.

SE Metro Area Radio Club (SEMARC)

Contact: Dave Harrell, NOIPN (612) 459-8678

Test Site: Cottage Grove fire Station

8641 80th ST., S

Cottage Grove, MN

TESTING: Third Saturday of the month, 9:00 a.m.

The above information has been furnished by the various VEs. However, it is suggested that you confirm time and date BEFORE you make the trip to the test site. Occasionally, test may be canceled or dates and locations changed. A Phone call could save you some grief and a wasted trip.

This section of Badger State Smoke Signals is available to publicize your Volunteer Examiner Amateur Radio license examination schedules. Please send us your schedules of dates, times, and locations that you will be conducting examinations and we will include the information here. Be sure to include contact address and any other necessary requirements. Information should be sent to K9EN at the address shown on page 2.

Wisconsin Nets Association Ltd.

Jim Merrell, W9AYK, Secretary • W283 Hillendale Drive • Oconomowoc, WI 53066

SECTION MANAGER'S NOTES



Richard R. Regent, K9GDF
5003 South 26th Street
Milwaukee, WI 53221



Happy New Year.

Midwinter Swapfest by West Allis RAC at the Waukesha County Expo Center Forum Building will be held on January 14. WARAC had awards dinner with Member of the Year award to KB9HJN and 40 year award to K9ILV; 30 year WA9KEC; 25 year WA9POV; 15 year W9NAW, W9KLN and KA9-JCP.

The Yellow Thunder ARC has been ARRL affiliated for over 25 years.

The Northwest WI DX Club is planning to become affiliated.

Congratulations to KA9VPE who has been awarded as Member of the Year by Navy MARS.

On January 20 the Adams County ARC will hold its MidWinter and Christmas Party.

Exams: January 6 Milwaukee, January 13 Madison and Redgranite, January 27 Tomahawk, January 29 Milwaukee.

Sorry to report Silent Key WB9TFJ.

Wisconsin Nets

Net	WNA	Freq.	UTC	CDT	Mgr.
BWN	Yes	3985	1200	0600	W9AYK
BEN	Yes	3985	1800	1200	KE9VU
WSBN	Yes	3985	2330	1730	K9UTQ
WNN	Yes	3723	0000	1800	KA9FVX
WSSN	Yes	3645	0030	1830	N9BDL
WIN/E	Yes	3662	0100	1900	WB9ICH
WIN/L	Yes	3662	0400	2200	W9NGP
NWTN	Yes	34/94	0030	1830	NS9Q
(Rhinelander area)					
RCRA	No	01/61	0030	1830	KA9OMC
(Mondays CDT) (Menomonie Area)					
Gr. Bay	No	72/12	0245	2045	WB9NRK
(Green Bay Area)					
ARES	No	4.65/5.25	0200	2000	
(South East/South Central Wisconsin)					
RACES	No	3993.5	1400	0800	WA9OAY
(LSB Sunday)					

WB9RQR has excellent SET Report for OZARES emergency response exercise.

Wisconsin now has 9,894 amateurs and 2,594 ARRL members.

Drop me a note if you would like a free list of Wisconsin's 108 radio clubs or 126 nets.

Thought of the month: *In the middle of difficulty lies opportunity.* □

Repeater Coordinators Hear FCC Position

An ARRL-hosted meeting of frequency coordinators, held in St. Charles, Missouri, on October 7, 1995, was attended by about 80 people, representing the vast majority of active coordinating organizations in the US. Ralph Haller, deputy chief of the Wireless Telecommunications Bureau of the Federal Communications Commission, provided "food for thought" and helped the group focus on what they need, rather than on what the FCC might be willing to provide.

Haller said: "I've never been particularly comfortable with the notion that there was no official recognition of a coordinator in a given area. Under our rules, almost anyone can claim to be a coordinator. That's happened very few times, fortunately, but it has happened. So, just as a precaution as we move into the future, I'd like to provide a mechanism that provides a recognition of coordinators.. [possibly an] umbrella organization of coordinators across the country...that would serve two purposes.

"First of all, it would be a single point of contact for the FCC to deal with amateurs on coordination matters. Second, it could be a group that would keep track of recognized coordinators ... and serve as a second-level review for contested coordinations. It's far better to solve disputes within the amateur community rather than take those conflicts to the federal government."

The coordinators decided by an overwhelming margin (with just six people opposed) that it did want a "Point of Contact," or POC (variously described as a "Single" or "Interim" POC) between the amateur frequency coordinating community and the FCC.

The group further decided, by a narrower but still decisive margin, that it wanted the ARRL to provide this contact. (A minority favored a separate organization, supported by the League but autono-

mous, similar to how the Radio Amateur Satellite Corporation-AMSAT-was first organized.)

By ballot, the group elected a five-member drafting committee to develop a proposed Memorandum of Understanding (MOU) to define the role of the POC. The committee consists of Owen Wormser, K6LEW/4, of the Middle Atlantic FM and Repeater Council (T-MARC); Dick Isley, WD9GIG, of the Mid-America Coordination Council (MACC); Bill Kelsey, WA6FVC, of the Southern California Repeater and Remote Base Association (SCRRBA); Jim Fortney, K6IYK, of the 220 Spectrum Management Association; and Whit Brown, WB0CJX, of MACC/Colorado.

The plan is to have a draft MOU ready for consideration by the ARRL Board of Directors at its January meeting.

There was considerable discussion of the pros and cons of resuming repeater licensing. While no formal stance was taken, the group seemed to regard pursuit of mandatory coordination as potentially more fruitful than relicensing of repeaters.

There was insufficient time to deal with other topics of interest at the meeting; however, most attendees felt the meeting was very worthwhile, and in fact, historic. In addition to the coordination organizations attending, the following ARRL representatives were present: ARRL President Rod Stafford, KB6ZV; Vice President Tom Frenaye, KIKI; Directors Marshall Quiat, AG0X; Steve Mendelsohn, WA2DHF; Fried Heyn, WA6WZO; Lew Gordon, K4VX; Hugh Turnbull, W3ABC; and Ed Metzger, W9PRN.

Also attending were ARRL Executive Vice President David Sumner, KLZZ, General Counsel Christopher Imlay, N3AKD; and Jay Mabey, NU0X, ARRL Repeater Directory Editor.

- The ARRL Letter, 10/27/95

Public Service: Good Communicators Help Agencies and the People

By Mack Brophy, N9NTB
526 Robert Drive, Sun Prairie, WI 53590

Greetings to all you new and old hams.

Your community needs a few good, qualified and concerned Amateur Radio operators to provide support through an organized group in the event of an emergency, e.g., tornado, flood, chemical spill (hazardous material event), nuclear power plant incident, or even as illustrated in the August 1995 QST article on the Oklahoma terrorist bombing.

The key word is organized. In Dane County, the key organized group providing such support is Dane County Amateur Radio Emergency Service (ARES) which provides hams for the State Division of Emergency Government ham shack, the American Red Cross ham shack, and the Dane County Emergency Government ham shack.

There are many positions, HF - VHF - UHF (voice and packet), that need a few good citizen hams who are interested in providing a trained and coordinated team to respond to any type of emergency. Your abilities and support for your community are needed NOW.

The statewide ARES/RACES (Radio Amateur Civil Emergency Service) also sponsors an emergency packet network on 145.61 which provides access to the state and county Emergency Government EOCs and the NOAA Weather Office at Sullivan. This network is easily identified by the prefix of AR...., e.g., ARSUNP in Sun Prairie, ARBOO in Baraboo, ARSUL in Sullivan, ARBURL in Burlington, ARMKE in Milwaukee, ARGLK in Green Lake, AROZKE in Ozaukee, ARMSN in Fitchburg and ARTOMA in Tomah.

In addition to the ARxxxx node network, there are WIRACA in Racine, WIWSH in Waukesha, and WIGTA in Germantown. The callsign for the State Division of Emergency Government is WC9AAG, and the packet station is operational 24 hours a day. The closest AR node to WC9AAG is ARSUNP.

Now is a good time to see if you can find a good route to these sites. Test check-ins are welcome. Please leave a msg with your home BBS. To connect to the Sullivan weather office, you can first connect to any ARxxxx node and then C ARSUL, type T to join the group or leave a message during times that there is a severe weather watch or warning.

Hams also provide support at the Sullivan NOAA weather radar room and the State Division of Emergency Government EOC during Skywarn severe weather watches and warnings.

Hams have always had a tradition of supporting their community. I hope you will join us in providing an organized team of operators by joining your county's ARES/RACES group. If you do not know the name of your local Emergency Coordinator (EC) you can contact John Leekley, WB9SMM, at 1-414-251-7056. He will tell you who your local ARES Emergency Coordinator is.

Thanks for your interest. □



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Adams County Amateur Radio Club P. O. Box 232
Friendship, WI 53934 (608) 564-7887
Packet: N9TD-1 on 145.03

Goodbye, Elmer

Not only is "Calvin and Hobbes" leaving the mainstream media, but "Elmer," the whimsical fellow in the four-panel strip drawn monthly by Rich Regent, K9GDF, is leaving us as well. Rich tells us in an exclusive interview that the demands on his time have grown so much he has no spare time left to draw "Elmer." Thanks, Rich, for those strips, and thanks to Elmer, too. □

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Sound on TAPR Home Page

Tucson Amateur Packet Radio Inc. (TAPR) has added an audio "virtual meeting workshop, and seminar page" to its home page on the InterNet, according to TAPR president Greg Jones, WD5-IVD.

The address is <http://www.tapr.org/>

TAPR is evaluating a "realaudio" system to present packet radio meetings and presentations. The system only allows six concurrent connections, so if you find that an audio channel is busy, try later, Jones said.

The new audio selections include: The March 1995 TAPR annual meeting in St. Louis, with a TAPR/AMSAT workshop and a seminar on error control coding by Phil Karn, KA9Q, a national meeting of repeater frequency coordinators on October 7, 1995, near St. Louis, including talks by Ralph Haller, deputy chief of the FCC Wireless Telecommunications Bureau, and ARRL President Rod Stafford, KB6ZV, and an interview with TAPR President Jones on the syndicated radio program "Ham Radio and More," August 13th, 1995.

The TAPR home page also contains a primer on amateur packet radio and other packet-related material.

- ARRL Bulletin ARLX067, 11/6/95

Atlantis Crew all Licensed Hams

Space Shuttle mission STS-74 is in orbit as this issue is being prepared for press, with all five crew members holding Amateur Radio licenses.

NASA astronaut James Halsell, KC5RNI, and Canadian Space Agency astronaut Chris Hadfield, KC5RNJ, both received their licenses in recent days, and both plan to participate in Shuttle Amateur Radio EXperiment (SAREX) activities during the STS-74 mission.

Halsell is the shuttle's pilot, and Hadfield is a mission specialist.

Shuttle Atlantis's commander for STS-74 is Ken Cameron, KB5AWP, who used Amateur Radio from Atlantis during STS-37 in April 1991 and from Discovery during STS-56 in April 1993. This will be the third mission Cameron has flown where the entire crew are licensed radio amateurs.

Other STS-74 crew members are Mission Specialist Jerry Ross, N5SCW, who was also a member of STS-37, and who operated ham radio aboard the STS-55 Columbia mission in April/May 1993; and Mission Specialist Bill McArthur, KC5-ACR, who used ham radio aboard Columbia during STS-58 in October/November 1993.

For more information on the SAREX program, visit the SAREX home page on the World Wide Web at:

<http://www.nasa.gov/sarex/sarexmainpage.html>

- From ARRL Bulletin ARLS022, 11/10/95

FCC Denies 3 Requests to Lower CW Standards

The FCC has denied three requests to lower the Morse code requirement for the General Class Amateur Radio operator license.

Please turn to page 8

1996 VE Test Fees Set

Effective January 1, 1996, the maximum allowable reimbursement fee for an amateur operator license examination will be 6.07 dollars. The FCC set this amount based on the Consumer Price Index between September 1994 and September 1995 and it will be an increase from the current 5.90 dollars.

Volunteer examiners and volunteer examiner coordinators may charge examinees for out of pocket expenses incurred in preparing, processing, administering, or coordinating reexaminations for amateur operator licenses. The amount of any such reimbursement fee from any one examinee for any one examination session, regardless of the number of elements administered, must not exceed the maximum allowable fee.

- ARRL Bulletin ARLB101, 11/1/95

"THE WORLD OF LOVE, TRUTH, PEACE"

Such a title has the new award and the first international radioamateurs activity day, dedicated to the Worldwide Christmas and 400-th anniversary of reunion of Ukrainian Catholic Church with Apostolic capital in Rome, which will take place on December, 25 1995 from 00.00 UTC till 24.00 UTC on 10 - 160M (except WARC) amateurs band, simultaneously CW and SSB.

The aim of this event is to maintain ideals of friendship, brotherhood and mutual understanding between the radio amateurs of different countries, popularization of amateur radio communication as the progress factor and as the mean of free communication between the people from different remote corners of the Earth.

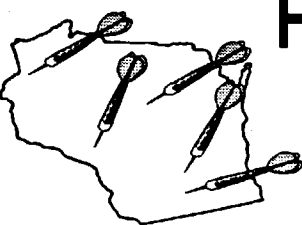
Participants should obtain not less than 365 points in order to get the award. QSO with "HV" gives 100 points, with radio stations which are on the territory of acting religious-cult objects (organized by the radio amateurs themselves) in no connection of their belonging - 50 points (repeated QSO permitted on different bands). QSO with "Radio-TLUM" members (after the calls they will transmit through stroke the letters "RT") gives 50 points, with radio stations situated on different 6 continents - 50 points (repeated QSO prohibited).

SWL's should receive the call sign of the station, its report and the call sign of the correspondent. Receive of the call sign of one and the same stations is prohibited for the second time. Applications must be sent in a month term to the address: Radio-TLUM, "World Day", P.O. Box 5000, Vinnytsia, 286018, UKRAINE. For the application should enclose 5 IRC.

Next Activity Day will be on December 25, every year.

Informservice of "Radio-TLUM", Jerry P. Strelkov-Serga (UT5NC). By commitment of UT5NC, performed and transmitted by UT5RP-SYSOP of UT5RP PR BBS in Odessa, Ukraine.

END OF MSG #32112 from UT5RP @ UT5RP.ODS.UKR.EURO



HERE and THERE

Pact Made in Search for E. T.: Are They Phoning Us?

The nonprofit SETI (Search for Extra-Terrestrial Intelligence) League has entered into an agreement with Down East Microwave Inc. The company, owned by Steve Kostro, N2CEI since 1994, is located in Frenchtown, New Jersey, and manufactures equipment for amateurs for 6 meters and above.

Under the agreement, according to SETI League Executive Director Paul Shuch, N6TX, Down East Microwave will produce and market amplifiers, filters, down-converters, and other receive equipment designed by SETI League engineers, with profits to be donated to the SETI League's research fund.

Kostro said that "radio amateurs are in a unique position to succeed where government agencies have thus far failed. SETI is no longer science fiction, but mainstream science, and Down East Microwave is pleased to have a role in this important research."

An article about the search for extraterrestrial intelligence and the role that radio amateurs can play in it appeared in August 1995 QST on page 37.

- ARRL Bulletin ARLX068, 11/8/95

More Ham Gear for MIR; Stay Extended for DP0MIR

German Cosmonaut Thomas Reiter, DP0MIR, and his two Russian crewmates, have installed a 70-cm band transceiver aboard their Mir space station, according to John Magliacane, in SpaceNews.

The main 70-cm band frequencies are:

Voice: 435.725 MHz (uplink) and 437.925 MHz (downlink).

Packet: 435.775 (uplink) and 437.975 MHz (downlink).

2-meter frequencies are:

Voice: 145.200 MHz (uplink) and 145.800 MHz (downlink).

Packet: 145.550 MHz (uplink) and 145.550 MHz (downlink).

It should be noted that this 2-meter voice uplink frequency is not available for use in areas where repeater outputs operate on the same or adjacent frequencies, and will be subject to interference from repeaters when Mir is in range of North America.

There has been no 9600-baud packet radio activity yet, since the high speed TNC will not arrive at the Mir space station until later, SpaceNews said.

Most activity from DP0MIR has been in talking with schools, mainly in Germany.

The three men aboard Mir were scheduled to return to earth in mid-January, but that reportedly

Where's the Loop?

What would you do in this condo? I tried the whip on a box and the whip in the window with a coiled tail. Only the TV in the next condo heard me 59. A ham with an OmniLoop just lying on his roof was talking to everybody. So I put one up during the SuperBowl when all the neighbors were busy, fed it with coax. Now I'm getting out on 40 thru 10. Add \$8 S&H.

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December 1995

The Computer



By Stan Kaplan, WB9RQR
105 Martin Drive
Port Washington, WI 53074-9654
(414) 284-9346
WB9RQR @ N9PBY.EN63BI.WI.USA.NA
SKAPLAN @ POST.ITS.MCW.EDU

No. 26: MONITORS AND VIDEO BOARDS

My friend Tom (WB9LNL) reminded me that I should write an article about monitors and the internal cards that drive them. What are the types of monitors you might see at a swapfest? How do you recognize what they are without turning them on? If you spot a computer without a monitor, how can you tell what kind of video card is installed? Which kinds of monitors and boards should you avoid? Which are good?

First, let me give you a list of the types of monitors and cards that are out there, in a nice tabular form so that you can take the list with you next time you shop at a swapfest. The basic cards (circuit board inside the case, to which the monitor is connected) are shown in the chart. Abbreviations: MDA = Monochrome Display Adapter; HGA = Hercules Graphics Adapter; CGA = Color Graphics Adapter; EGA = Enhanced Graphics Adapter; VGA = Video Graphics Adapter.

Please note that this is a summary; I have left out the PGA and MCGA, which you are unlikely to encounter. I have also rounded off the frequency data, and given only the maximum values for several parameters.

Now let us talk turkey. The MDA and HGA cards are used to drive monitors which display white on black, green on black or orange on black screens. They are not capable of showing red, green and blue colors. The MDA displays only characters, and for this it is excellent. The letters are nice and sharp and readable. The HGA is the same, but also has some graphics capabilities. However, special drivers have to be used with the software that shows the graphics, which is a pain. Although both these monochrome displays and cards are considered to be obsolete, they are perfect for packet and even for simple word processing, both of which are character based activities. Don't ever pass up a good buy on a used system just because it is monochrome, unless you have a particular reason for wanting color. Yes, a 486 or even a pentium will work beautifully with a monochrome screen. Both the MDA and the HGA cards commonly have a DB-25 printer connector, as well as the DB-9 monitor connector. It is difficult to distinguish between an MDA and HGA card without opening the case to inspect them, but that is really unimportant, anyway.

CGA stinks. Avoid it. Yes, it is a color display, but look at the resolution in the table above. Even text characters are fuzzy and indistinct, because only 64 dots (8 x 8) are used to form each letter, as opposed to 126 dots for MDA and HGA systems, 112 dots for EGA and 144 dots for VGA. As

PARAMETER	MDA	HGA	CGA	EGA	VGA
Screen resolution	720x350	720x350	640x200	640x350	720x400
Number of colors	*4	*4	16	64	256k
Dots to make a character	9x14	9x14	8x8	8x14	9x16
Graphics capable?	No	Yes	Yes	Yes	Yes
Vertical freq (MHz)	50	60	60	60	70
Horizontal freq (MHz)	18	18	18	22	32
Pins on adapter/cable	9	9	9	9	15
How to spot this card: PRN=printer; RCA=RCA jack; DIPSW=dipswitch	PRN	PRN	RCA	2 RCA and DIPSW	See number of pins

*The definition of "colors" includes normal, highlighted, reverse video and underlined for MDA and HGA systems.

indicated above, you can spot a CGA card by simply looking at the back of a computer. If a card has a 9 pin connector and a single RCA jack, it is most likely a CGA card. These are definitely boat anchors; neither the cards nor the monitors are manufactured today.

EGA is also obsolete, but the systems provide nice, sharp characters and good color. If everything else in a used system is satisfactory, do not reject the system because it is EGA. You can recognize the cards because they most often sport two RCA jacks and a dipswitch, in addition to the 9 pin connector.

VGA is the current mode of choice, and the cards are easy to spot because they have a 15 pin connector, with the pins arranged in three rows. Some VGA systems have nearly photographic quality, with sharp, brilliant colors. These are the first choice in 1995.

I am writing this using a 486 - 66 MHz computer attached to a Sony Trinitron MultiScan HG

monitor (VGA). The letters are bright white on a blue background, and very pleasing to the eye. However, I could just as easily have done the job (and sometimes do) on my old XT, with its orange on black monochrome screen. The sharpness of the characters would not have been significantly less, nor would the computer have responded significantly more slowly to my keystrokes. Keep that in mind when looking for a used computer for packet and general shack use. Fit the tool to the job.

In summary, any monitor/card shown above is fine, except for CGA. Choose EGA or VGA if your tasks will require graphic capabilities, or if you absolutely want color. Otherwise, an inexpensive monochrome system will be fine. Happy computing, and successful shopping!

Reprinted, by permission, from the ORC Newsletter, Ozaukee Radio Club, P.O. Box 13, Port Washington, Wisconsin 53074 (Skip Douglas, KA9DDN, Editor).

24th ANNUAL MIDWINTER Ham Radio, Computer, Electronics

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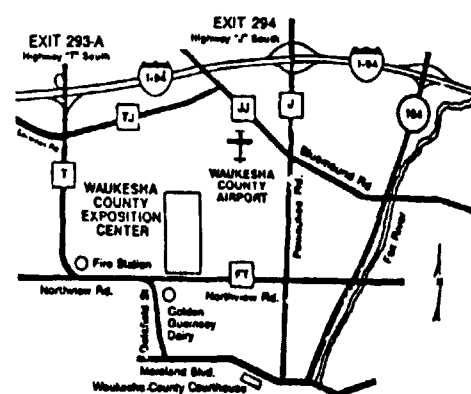
Local radio clubs searching for worthwhile projects may wish to "adopt" the student radio club at the nearby high schools or college. Many once-flourishing student clubs have fallen by the wayside because of a lack of funding and/or faculty interest.

While the young people can attend the meetings of the adult clubs, a lot of 14-year-olds don't enjoy being the only young person in a room of old geezers. And, truth be told, the chance they will be ignored (except, of course, at an enlightened club) is very high.

How many of us have an old Galaxy, Sawn, Drake, etc., that is doing absolutely nothing but attracting dust? Loaning it to a school would be a nice move. So they blow the finals - at least somebody learned something from it, which is more than that unused rig is accomplishing now.

- Armond Noble, N6WR, in *Worldradio*, 12/95

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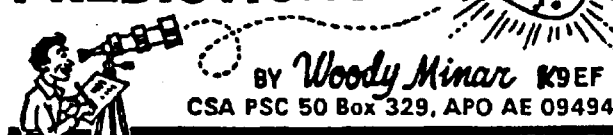
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PROPAGATION PREDICTIONS



The End is NOT Near

The headline "Sunspot Hints Start of New Solar Cycle" piqued my interest about this independent observance. Good news is worth hearing, so please don't shoot this messenger carrying delayed good news.

In the November, 1990 issue of *Smoke Signals*, I wrote that the end of Cycle 22 and the beginning of Cycle 23 would end in "winter 1996-97." I wrote in the April, 1991 issue that it would be "late 1996 or early 1997" and again in July, 1994, "late 1996." I also stated that the Solar Cycle averages about 10.5 years. Since the minimum occurred in September, 1986, I still stand firm on my previous predictions.

As you know, I am a believer in the Planetary Alpha Index measured against the 2800 MHz Solar Flux as a measure of predictable cyclic conditions - good and poor - and the correlation to sunspots and their cycles. There are several reasons why Cycle 23 won't start for another 15-18 months, or January-March, 1997.

1. The last three sunspot cycles lasted 126 months (Cycle 20), 140 months (Cycle 21), and 123 months (Cycle 22). Cycle 21 is only 108 months old. I believe it will be about 123 months.

2. The 2800 MHz Solar Flux reached lows of 70 and 67 in June and July, respectively, at Cycle 20 minimum. It reached a low of 68 in August and September 1986 at Cycle 21 minimum. Prior to reaching those lows, the Solar Flux gradually (but not linearly) decreased from highs of over 200 during the peaks to the lows just noted. Right now, the Solar Flux decline is beginning to flatten at around 74 to 72. It will take a year to reach the predicted low of 68.

3. The Planetary Alpha Index is hovering at a monthly average on 10-14. Historically, it appears stable until about six months before the cycle minimum when it decides to oscillate erratically until it surges the month of the minimum. We haven't reached the erratic juncture.

4. The official monthly sunspot number, according to NOAA, has been between 14.6 and 15.8 since April, 1995. The lowest number for Cycle 21 was 12.3

If you believe this was bad news, think of it positively: each day is closer to the peak of Cycle 23, which should begin mid-1999.

Happy Holidays, and Happy DXing. □

Correspondence

Special License Plates Sought for Disabled Radio Amateurs

Dear Jim:

Enclosed (not printed here) are copies of letters and a copy of the Bill that State Representative Rob Kreibich and I have been working on for about the last two years. My best friend at that time, Mike Ceraso, N9JMA, who is now a Silent Key, got me started on this task.

I have also asked that the Bill be named after Mike. It is a Bill to create a special license plate for disabled Amateur Radio operators.

In the latest letter I received from Rep. Kreibich, he states that the ham community (in Wisconsin) needs to contact and ask our local representatives in Madison to get this Bill passed. As Rob

take a "statewide uprising" (to show that the bill has a vast amount of support statewide).

I have talked with some of the other hams around from time to time, and found that it would be great for those hams who are disabled and who would like to see this license plate become reality. All hams will need to contact their state legislators to get this bill passed.

I am also trying to get the Bill named the "Michael J. Ceraso Bill" in honor of my best friend, who helped me get started in Amateur Radio.

With your help and *Smoke Signals* and the help of others, we will get this Bill passed by showing the legislators of Wisconsin that we of the ham community are not a minority, but a good, strong group for "lobbying" in the state.

Thanks for your help with this.

73.

Leroy A. Dick, Sr., N9RSU
2126 Brackett Avenue
Eau Claire, WI 54701-4631

Morse code helps disabled speak through computers

MORSE 2000: A Worldwide Outreach

At a time when various services are abandoning Morse code as a mode of communication and many believe the use of Morse is nearing its end, Dr. Tom King, WF9I, of the University of Wisconsin - Eau Claire, has been adapting the code to make it possible for people with communicative disorders to talk with others. Dr. King works in the Department of Communication Disorders at UW-EC. The following is from "MORSEs", vol. 1 no. 2. It provides an overview of how the first binary data transmission system, invented by Samuel F. B. Morse, is being adapted and used today and will still be used in the future to provide people with a way to communicate by "marrying" Morse code to computers.

BACKGROUND

Morse code, the ancestor of ASCII and other data interchange codes, is a system of asynchronous data bits composed of binary-encoded circuit opposites (on-off, long-short, left-right, high-low) used for transmission and reception of alphanumeric information. This elegant, simple, yet powerful encoding system was developed over 160 years ago by Samuel F.B. Morse. Morse code is now being harnessed for use in the rehabilitation applications of Augmentive-Alternative Communication (AAC) and Assistive Technology (AT), including mobility, environmental control and adapted worksite access.

Many individuals of all ages who have motoric and/or sensory disabilities are using newly-developed access software programs, hardware peripherals, and learning methods that allow them use of microprocessor devices via Morse input from switches external to the computer. Even with limited movement or sensory capabilities, people around the world are successfully operating computers and other devices via adapted switching mechanisms and Morse code emulation of keyboard input functions.

Research and clinical experiences are indicating that the fast rate of entry and low level of physical exertion inherent in Morse code can make it a viable, competitive method of microprocessor control for many disabled persons. This alternative computer access method can help bestow the power of speech output, writing, typing, dialing, graphics,

music, and other modes of expression. Also, Morse code input to activate mobility and environmental control devices may open worlds of educational, vocational, and recreational opportunities to many persons previously shut out of these pursuits.

The promise of Morse code use is great, both in AAC/AT rehabilitation applications and in other specialized communication settings in which simplicity of control interface is a major consideration. Around 20 manufacturers/developers of Morse-input hardware or software for use in AAC/AT have been identified to date. However, beyond standard Morse encoding patterns for letters, numbers, and basic punctuation, each manufacturer appears to be developing their own non-standard "Morse-type" patterns for keyboard functions not addressed in the original code. Some examples of functions include Shift, Alt, Delete, Enter, and other non-alphanumeric commands/functions found on computers, as well as cursor control via mouse or keyboard arrow inputs.

PURPOSE

A unified, global effort to promote use of, research in, and standardization of Morse code in rehabilitation contexts, as well as in other specialized communications settings, appears essential at this time. Morse 2000 will begin to address these needs.

GOALS OF MORSE 2000 OUTREACH

This outreach will:

1. Organize and conduct an international conference addressing rehabilitation applications of Morse code.

Phase I: Regional planning conference, Spring, 1996

Phase II: International conference, Spring, 1997.. and beyond

Please turn to page 8

USED AMATEUR RADIO EQUIPMENT

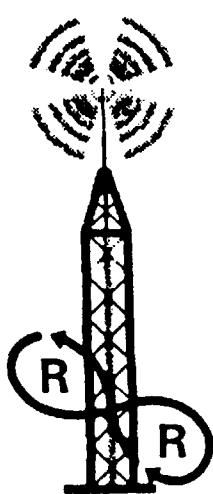
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✕ Clocks traded for Ham Radio gear

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FOR SALE: Heathkit SA-2060 Deluxe Antenna Tuner, 160 through 10 meters, 2500/500-watt ranges, dual metering FWD/REF; 2 coax outputs and one balanced; roller inductor with counter. Manual. \$165 shipped/\$150 picked up. George Stanek, W9RTP, 99 Washington Road, Edgerton, WI 53534. (608) 884-4820. □



MORSE 2000

Continued from page 7

Site: University of Wisconsin-Eau Claire, Eau Claire, Wisconsin.

2. Develop and maintain a worldwide communication network to share information on Morse code use in rehabilitation and special education. This network will include the newsletter MORSEs and the online Morse 2000 listserver, as well as telephone, FAX, and postal communications.

3. Develop and maintain an international repository for and database of research in Morse code applications in rehabilitation, available via the above communication network.

4. Apply research and clinical findings to establish and promote use of standardized Morse-type entry patterns for all currently-used keyboard functions and mouse emulation.

5. Promulgate a standardized methodology of

Morse pattern creation for representing new keyboard functions as they are developed by manufacturers.

6. Continue to influence the computer industry to include Morse code access as a standard, transparent access alternative built in to all new computers.

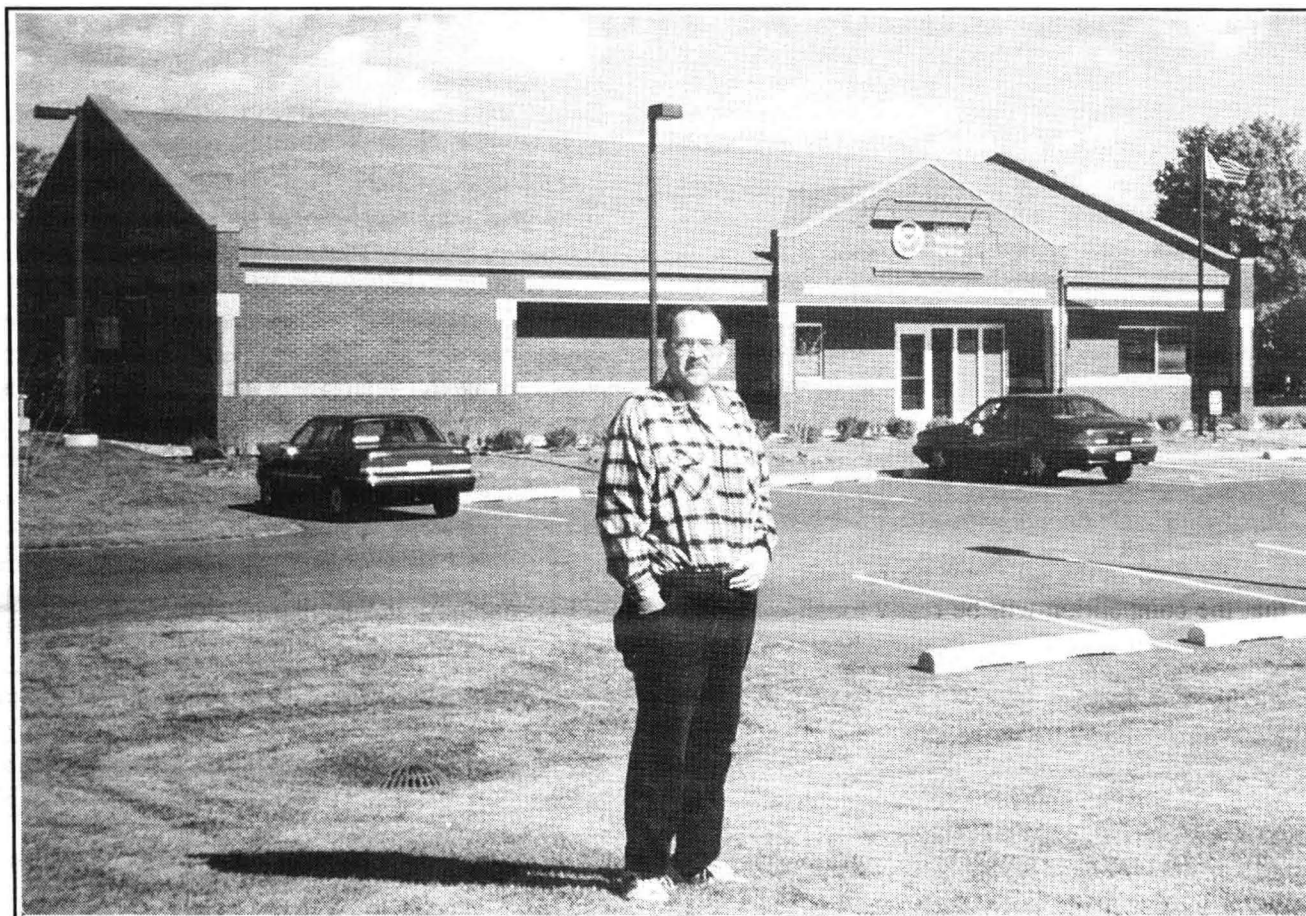
7. Expand global Morse literacy and awareness for potential users and the general public.

8. Continue to research and develop enhanced, efficient methods of learning Morse code for various expressive and receptive communication applications.

9. Explore possibility of publishing a regular scholarly journal focusing on Morse code research.

For further information on the Morse 2000 Outreach and/or to subscribe to MORSEs, contact MORSEs Editor, Dr. Thomas W. King at the University of Wisconsin, Eau Claire, WI 54702-4004 USA; phone (715) 836-3980. EMAIL: KINGTW@UWEC.EDU

La Crosse National Weather Service Office Gets New Facility; SkyWarn Coverage Expands



Starting this Spring, the National Weather Service Office in La Crosse, Wisconsin, will begin a major expansion in service coverage. By the end of 1996, local SkyWarn coverage will encompass a total of 28 counties, with Amateur Radio operation from the NWS office. The new NWS facility, on top of Grand Dad's Bluff, has a new radio and omnidirectional and Yagi antennas for SkyWarn use. Coordinating this major growth in coverage is Kent Helmen, W9LZQ, shown here at the new NWS building. Kent has been the La Crosse area SkyWarn Coordinator since its start about ten years ago. Kent is also the ARES District Emergency Coordinator for West Central Wisconsin. We're confident that Kent will rise to this new challenge and, through his efforts and hard work, make the transition run smoothly and efficiently.

- Robin E. Janda, KB9LAC
1063 Fairfield Street, Onalaska, WI 54650

HERE and THERE

Continued from page 5

The requests, in the form of letters, came from three Technician Plus class licensees. All three asked that the 13 WPM Morse code requirement for the General Class license be lowered to 5 WPM. Two of them also asked that the Technician Plus operator license class be eliminated and that holders of Technician Plus licenses be granted General Class operator privileges.

In an Order released October 19, 1995, the FCC said "The current amateur service license structure and examination requirements were developed in accordance with the expressed desires of the amateur service community through numerous rule making proceedings that generated many thousands of comments.

"The amateur service community indicated on each occasion that it strongly desires to preserve communications by telegraphy. After considering the views expressed in those proceedings, the Commission adopted the rules that are codified in

Part 97" (of the FCC Rules).

"The requesters have not presented sufficient evidence to justify revisiting these matters at this time," the FCC said.

- The ARRL Letter, 10/27/95

Call for Section Manager Nominations Coming in January; Wisconsin Included

January QST will call for nominations for ARRL section managers, so start thinking now about your choice for a nominee. The following sections are affected: Illinois, Indiana, Maine, Northern Florida, Oregon, Santa Clara Valley, and Wisconsin.



- The ARRL Letter, 11/9/95

**THIS CHRISTMAS, GIVE A GIFT
SUBSCRIPTION TO BADGER STATE
SMOKE SIGNALS**



Ask Elmer

Q. Should CONFIG.SYS instructions load shorter or longer programs into memory first?

A. Load larger programs first into upper memory. Just think of it like loading the big boulders in a barrel and then adding sand, which obviously doesn't work in the reverse sequence.

Q. Can I clean my monitor screen with some kind of spray cleaner?

A. You can clean the video display screen with a mist spray cleaner. Commercial sprays come in a hand-pump plastic bottle and the solution usually contains working ingredients like 6% methanol, 6% isopropanol, 4% butylcellosolve and 1% ammonium hydroxide. Spray it on a soft cloth and then clean the screen with the cloth.

Q. How can I extend serial cable length and have the signals work?

A. Serial cables usually work up to 50 feet. Beyond this length you could add line drivers using twisted-pair cabling instead of RS-232, higher quality cabling with extra shielding, or reduce speed of serial link 9,600 to 1,200 bps may be able to triple the distance.

Q. Are screen savers really necessary?

A. VGA doesn't burn in; screen savers are only for users fun. CGA and EGA screens did burn after many weeks of the same video on screen.

Q: What did some manufacturers do with marginal math co-processors?

A: Math co-processors that didn't work were literally pulled out of the trash bin and marked and sold as SX instead of DX.

Do you have a question or a problem? Ask Elmer! Send your questions (no telephone calls, please) to "Ask Elmer," 5003 South 26th Street, Milwaukee, WI 53221.

RF Light Bulbs Get FCC Approval; General Electric Plans to Market

The Federal Communications Commission has waived its rules to permit the General Electric Company to begin marketing an "RF lightbulb." The Commission waived, at GE's request, FCC Rules Part 18 limits on the amount of RF energy that may be conducted into the electric power lines by RF lighting devices in the band 2.2 to 2.8 MHz.

GE proposed marketing to consumers an unlimited number of RF light bulbs that comply with the conduction limits for nonconsumer RF lighting devices in this band. (FCC rules already permit RF lighting devices used in commercial environments to place this signal level on the AC power lines.)

The FCC said that there has been "no record of significant interference problems from the use of these devices in commercial environments," and also said that radio operations in the range 2.2 to 2.8 MHz "are not normally employed or intended for reception in residential environments."

GE was granted a waiver for one year, and the FCC reserved the right to revoke it if it determines that RF lighting devices operating under the conditions of the waiver create "severe interference problems."

Three years ago a California company, Inter-source Technologies, promoted an RF-powered lightbulb that operated at 13.56 MHz and was designed, according to the company, to keep unintentional radiation to a minimum (a story appeared in August 1992 QST, page 49). A 25-watt RF bulb was said to generate as much visible light as a 100-watt conventional bulb. These bulbs were never marketed.

The ARRL will obtain samples of the GE bulbs for testing as soon as they are available. ARRL Laboratory Supervisor Ed Hare, KAICV, said that the new bulbs should not, if properly designed, create any more interference to Amateur Radio operations than fluorescent bulbs, dimmer switches, or other similar devices found in the home.

- The ARRL Letter, 11/8/95



For The Ladies

By Nancy Johnson,
N9NZM
407 Adams Street
Fort Atkinson, WI
53538

Nancy's column does not appear this month. At press deadline, nothing had been received. We hope she will be back in January. □

League Increases Electronic Forms Offerings, Prepares to Introduce Contest Yearbook

In an effort to make ARRL contest forms more quickly and easily accessible, the League offers them electronically via its automated information server (that also contains a wealth of other files). Concurrently, contest announcements in *QST* have become shorter and more "user friendly," aimed at acquainting newcomers with the general outline of each contest, how to operate in it, and what awards are available for participation and achievement.

Printed copies of the complete rules for all ARRL contests will be made available in a new publication called *The ARRL Contest Yearbook*; the 1996 edition of this booklet will be available in December, by mail, for \$5. Also included in the *Yearbook* are contest summary sheets, dupe sheets, zone maps, ARRL section lists, and an extensive Field Day package for clubs.

It should be noted that it is possible to participate fully in ARRL contests without obtaining the *Yearbook*, by downloading summary sheets and generating one's own log and dupe sheets (that are automatically generated by the contest software now widely available and used).

The ARRL's Automated Information Server is at info@arrl.org. Send a new message to info@arrl.org for each batch of requests. Each line of the message should contain a single command.

Valid info e-mail commands are:

help (Sends this help file)

index (Sends an index of the files available from info)

send filename (Sends "filename")

quit Terminates the message.

*.RLS files are the rules for the different contests; *.FRM files are entry summary sheet files that can be edited with your contest result data. Use an ASCII text editor when inserting your contest data.

- The ARRL Letter, 11/9/95

The Extra Exam for Music

By Richard Regent, K9GDF
5003 South 26th Street, Milwaukee, WI 53221

Many Amateur Radio Operators are interested in music. One reason is that music and Morse code CW have many similarities such as speed, timing, tone and volume. CW is enjoyable and so is it for me to practice the clarinet two hours a day. I am currently in the Cudahy Civic Band, the South Milwaukee Municipal Band and play occasionally at Adoration Evangelical Lutheran Church in Greenfield.

Recently I heard about auditions for extras and substitutes for the Milwaukee Symphony Orchestra held each October. First I mail my one-page music resume to the MSO and it is accepted. Then I receive a list of four songs to prepare for the audition: Clarinet Concerto first movement by Mozart, Sixth Symphony by Beethoven, Scherzo from Midsummer Nights Dream by Mendelssohn and Capriccio Espagnol by Rimsky-Korsakov. Finally, I sent a refundable check for \$10 to reserve a time for the audition and waited. This year, clarinet auditions were on October 19 and other instruments on October 23.

It is the day of my audition. I enter through the north stage door and recognize the security guard, a trumpet player in the Cudahy and Greendale Bands. I'm lead down some hallways and stairs to a choir preparation room to begin to practice. Eventually there are eight clarinetists who arrive one at a time. Each signs the register and then their check is returned to them.

We are in a long practice room in the basement of the Performing Arts Center. The room soon fills with bright tune-up clarinet sounds played by talented candidates practicing parts of the four songs or warm up exercises. I've never heard so many superb clarinetists in one room. Like listening to top CW contesters who operate at full speed in the 40-meter Extra band, I sense that the competition will be really tough.

It is 12:30 p.m. and the contest begins. Being the first to arrive assigns me as the number one candidate. Kip Pretat, Assistant Personnel Manager, guides me up the stairs to the center of the brightly lit stage at Eihlein Hall to a red padded musician's chair. This is where the MSO performs, but today it is the audition room. On the music stand just a few feet in front of me is sheet

music for the four songs with certain passages marked in red brackets. This is the exam.

At stage left was a screen hiding view of the judges. We could not see each other. A voice came from behind the screen, "Will this be a B♭ clarinet only?" "Yes," replied Kip. I must not talk because that could give the judges clues, such as my age, sex or possibly they might recognize me. (Could I impersonate clarinet greats like Eddie Daniels or Richard Stoltzman?) The seats in the darkened audience are just a vast dark space. It is silent, only the judges are listening.

Now for the sending test. I contemplate about the appropriate tempo for the first passage and begin to play. At the end of each passage, and after about a three-second pause, I hear a voice that comes from behind the screen "Thank you." I think my clarinet sound is dull and lacks echo from the wooden stage, large curtains and off the thousands of empty audience seats. It is an immense room that does not have the rich sounds of an empty church or even my basement. But within five minutes my audition is complete.

I had practiced those four songs over 50 hours during the past month. Others perhaps had practiced all year or more for their audition. A week later I get a beautiful thank-you letter from the MSO for my participation. Unfortunately, the judges do not add my name to the list of extras or substitutes but I can try again in the future. It was an opportunity, a challenge and a worthy experience.

Sometimes I see N9IDH play his violin at MSO concerts, sitting three rows from the conductor in the row toward the audience. He can tune up and play his violin as a musician or a transmitter as an Amateur Radio operator, a combination of achievements that I admire.

Let me know if you like music. More information about MSO auditions is available for serious musicians from Mary Novak (414-291-6010). Are you looking for other music groups to join with fewer requirements? I have prepared a free list of 44 bands and orchestras in the greater Milwaukee area, ask me for a copy. Good luck and good tones. □

Badger State Smoke Signals needs good articles, photos, and stories to share with readers. Original material is always given preference. These items should be sent to Jim Romelfanger, K9ZZ, Editor, 412½ Ash Street, Baraboo, WI 53913. Photos and disks are not usually returned; please include an SASE if you'd like them back. Help make BSSS even better - share your experiences and projects.

Thanks!



SSB

SELL SWAP BUY

OUR WANT ADS GET RESULTS

FOR SALE: Book for Assembly Language Programming. \$34.00 plus S&H. Bob, W9RQY, 2113 Eagle Drive, Freeport, IL 61032. □

Ham Radio, JOTA, and Camporees: A Perfect Match

Continued from front page

Helping me were Bob Aspinwall, KA9JPZ, and Peg Haese, KB9LIE. This was Bob's and Peg's first time doing a JOTA. Our station had HF, 2-meter voice, and packet.

On HF, we were able to make contacts with other hams in the Midwest, but our best contacts were made with our counterparts at the Yahara District Camporee in Jellystone Campground. The action there had Tom Fleming, N9SZF, and Joe Imilkowski, W9CWD, at the helm. Tom and Joe also were doing their first JOTA at a scouting event.

Scouts and adult leaders had a great time talking to each other and learning what each had for interests in scouting and outside of scouting.

All in all, despite the cold and being frozen, everyone had a good time at both Camporees, and we are already looking forward to JOTA '96. □



Bob and Peg look over one of the 2-meter antennas. They were also wondering why they left a nice, warm home for this.

FCC ISSUED CALL SIGN UPDATE

The following is a list of the FCC's most recently issued call signs as of November 1.

District	Group A Extra	Group B Advanced	Group C Tech/Gen	Group D Novice
0	AA0ZS	KG0ZQ	++	KB0UJJ
1	AA1OV	KE1DJ	N1WBH	KB1BUW
2	AA2ZG	KG2ER	++	KB2WEE
3	AA3MX	KE3VD	N3WHT	KB3BLQ
4	AE4NK	KT4FO	++	KF4EKP
5	AC5FN	KK5UL	++	KC5RMU
6	AC6QH	KQ6BK	++	KE6ZIM
7	AB7NA	KJ7SG	++	KC7NPR
8	AA8UW	KG8UF	++	KC8BKJ
9	AA9QL	KG9EO	++	KB9LWZ
N. Mariana	KH0U	AH0AW	KH0EN	WH0ABD
Guam	WH2Q	AH2DA	KH2OV	WH2ANN
Hawaii	++	AH6OH	++	WH6CYO
Amer. Samoa	AH8O	AH8AH	KH8CK	WH8ABE
Alaska	++	AL7QG	++	WL7CPJ
Virgin	WP2U	KP2CH	NP2IL	WP2AIA
Puerto Rico	++	KP4ZZ	++	WP4NEA

++ Either all call signs in this group have been used or no new call signs have been recently issued in this district.

- ARRL Bulletin ARLB102, 11/10/95

PARTICIPATING CLUBS AND ORGANIZATIONS

OFFICIAL PUBLICATION OF CENTRAL WISCONSIN RADIO AMATEURS, LTD.

At University of Wisconsin, Stevens Point

WATTS SNOO



WB9QFW 2-Meter Repeater 146.07.67 and Club Station

P. O. Box 923 • Plover, WI 54467

MEETING MINUTES November 8, 1995

The meeting got underway at 7:33 p.m. with a presentation by Mike Pagel, KA9LAQ, on "Amateur Radio on the InterNet". Mike, the Associate Director of Student Services at LTW-Stevens Point, discussed the history of the InterNet and the World Wide Web as well as the development of software such as Mosaic and Netscape for browsing the net. He described the astounding rate of growth of InterNet resources and the impact that this is having on information exchange in both the academic and commercial worlds. Mike also explained how the owner of a personal computer would go about getting connected to the InterNet. Lastly, he distributed a page of addresses of Web sites related to amateur radio. Thanks, Mike, for an excellent talk!

The reports of the secretary and the treasurer were approved. President Mary Eiden, KA9FAS, then read a card sent by the family of Charlie Miller, WB9UMU, beloved club member, now a silent key.

Discussion turned to the club's repeaters. There was some concern raised about whether the echo feature is working properly on the W9NN repeater. W9NN is investigating. Art Wysocki, N9BCA, reported delays in accessing the outside phone line using the WB9QFW repeater. Mike Pagel, KA9LAQ, promised to investigate. Concern was also raised that the roster of members having autodial privileges is no longer up-to-date. The roster will be reviewed. Club members who have not yet renewed their membership for 1995-1996 are at risk of losing their autodial privileges in the near future.

The club banquet will take place at Sentry World on January 10th. Those attending will have a choice among three entrees: New York strip steak, baked cod, and chicken cordon bleu. It was decided to forego the formal program of entertainment in order that club members have more time available at the banquet to visit with one another. Further information about this gathering will be forthcoming in a mailing sent to club members.

Plans are going forward for club participation in the Frostbite Road Race and

Winter Walk, to be held on December 2nd. Two more volunteers are still needed to help with communications. If you are willing to assist, please contact Frank Guth, W9BCC.

Scott Jasper, NE9U, offered suggestions for modifying the raffle that has been held annually in conjunction with the club's summer swapfest. Discussion ensued, but no action was taken.

The Monday Night Net -- now following an informal, conversational format -- will be coordinated during the month of December by Joe Omernik, N9CGV.

The club approved two proposals by Scott Jasper, NE9U, for improving our packetcluster communication links within Wisconsin. The first entailed the purchase of a crystal (cost: approximately \$30) to establish a packet link with Tomah, thereby relieving some of the traffic presently going through Baraboo. The second was the relocation of the 223 MHz radio and TNC from Sentry to a 400-foot tower in Milladore.

Gene Kroll, KE9MA, extended an invitation to club members to attend Wisconsin Rapids' club banquet, to be held on January 20th or 21st. Costs will be in the range of \$6.99 to \$12.95. Further details will be included in the minutes of next month's meeting.

The meeting adjourned at 8:44 p.m.

Respectfully submitted:
David Tamres, KB9IIF
CWRA Secretary

ATTENDANCE

Bob Baird	W9NN
Mary Eiden	KA9FAS
Mike Eiden	WD9JID
Dave Golla	N9OVT
Frank Guth	W9BCC
Scott Jasper	NE9U
John Kalina	KA9DJA
Deb Kroll	N9EIL
Gene Kroll	KE9MA
Joe Larson	N9JW
Joe Omernik	N9CGV
Mike Pagel	KA9LAQ
David Tamres	KB9IIF
Arthur Wysocki	N9BCA

Riverland Amateur Radio Club

Tom O'Brien, WB9BJQ
Secretary

Club mail address: P.O. Box 621
Onalaska, WI 54650



RARC MEETING 7 November 95

Meeting called to order at 7:00 p.m. by President WU9N.

A moment of silence was observed in memory of SK Bruce, K9CUT.

Reading of the minutes of the October meeting; there was a motion by Bob, N9LZK, that since the minutes as published in BSSS had arrived in the members' mail, that the reading be dispensed with. Seconded by Greg, KA9FOG.

An amendment to the motion was offered by AA9AW to correct the statement that revisions to the Club Constitution would be voted on at 2 meetings to the November meeting only. There was a second by KV9U. The vote was taken and the motion to amend carried. After discussion, with objections by Mr. Karl E. Simonson, KB9EQI, the vote was taken and the motion, as amended, to dispense with the reading, carried.

Treasurer's report: Since the Treasurer could not be present, his report was read by President WU9N.

COMMITTEE REPORTS

Program: W9LZQ reported that the program for the evening would be on the subject of fire extinguishers, to be presented following the business meeting.

Constitution Committee: All present were furnished with a copy of the Committee's proposed revised Constitution. It was the same proposal that was distributed at the October meeting with the correction of one typographical error and the correction of several misspelled words. Committee Chairman AA9AW moved adoption of the Committee's report; the motion was seconded by N9RWU.

Several procedural questions were raised by Mr. Karl E. Simonson, KB9EQI. After discussion the vote was taken, and the motion carried unanimously.

The Committee also presented a revised set of Standing Rules which were attached to the Constitution, and with it, distributed to the members at the October meeting. Committee Chairman AA9AW moved adoption of the committee's report on the Standing Rules. The motion was seconded by W9LZQ. After discussion, the vote was taken and the motion carried unanimously.

440 MHz repeater: N9PZC reported

on the progress. He stated that some hardware is still needed.

Net manager's report: N9XI reported that the net is moving well.

ARES, SkyWarn, etc: W9LZQ reported on our members' involvement with programs of Red Cross and the National Weather Service.

Club Trailer: N9LZK reported that rodent control measures had been taken.

Swapfest: K0JYB reported that several thousand flyers had been printed. A number have already been distributed at the St. Paul, MN hamfest and more are being sent to the PC Disk seller for distribution.

Nominations Committee: Chairman W9LZQ reported that the members of the committee were himself, KB9LAC, WB9BJQ, and AA9AW. He announced that the Committee's nominations would be:

President: W9HWQ
Vice President: N9LZK
Treasurer: N9LGV
Secretary: N9PZC

Questions and objections as to the propriety of the committee and its action were raised by Mr. Karl E. Simonson, KB9EQI. After discussion, the report closed.

Repeater Committee: W9HWQ reported the the 2 meter repeater is working well after several controller programming changes had been made. Once again there were objections made by Mr. Karl E. Simonson, KB9EQI, regarding the conduct of the Committee's composition and conduct of its responsibilities. On motion by W9LZQ that the discussion be closed and the matter referred to the Repeater Committee for resolution, and second by N9RWJ, the vote was taken and the motion carried.

Olburg estate: W0JDC reported that there are still a few items in the inventory.

Annual Dinner: K0JYB announced that the annual dinner will be held on January 20, 1996, at the Nob Hill restaurant in Onalaska. The cocktail hour will be 6:00 p.m. and dinner at 7:00 p.m.

Field Day 1996: WU9N asked that we start thinking now about how we want to conduct it.

Special Item: WU9N brought before the meeting an RFI ordinance from the City of La Crosse, which is designed to control RFI caused by unlicensed operators.

The meeting closed at 7:55 p.m. with coffee and cookies furnished by N9LGV.

Wisconsin Nets Association Ltd.

NTS TRAFFIC REPORT

October 1995

Another big tip of the hat to all of the net participants in Wisconsin. We have one of the best NTS systems in the country, and it is the net members who make this possible. Keep up the good work, folks.

With four of the seven nets reporting this month, there were 2918 checkins and 2439 pieces of traffic passed. The Badger Weather Net (NM W9AYK) led the way with 1873 checkins and 2278 messages passed. The Badger Emergency Net (KE9-VU NM) had 653 checkins and 68 messages passed. WIN/Early (WB9ICH NM) had 174 checkins and 61 messages passed. The Northwoods Traffic Net (NS9Q NM) had 218 checkins and 32 messages passed.

I did not receive reports from the Wisconsin Sideband Net, Wisconsin Slow Speed Net (due to the moving of the NM, N9BDL), and WIN/Late.

There were six stations with over 100 pieces of traffic handled, two of whom made Brass Pounders League. The stations are W9AYK - 2457 (BPL), WB9JSW - 904 (BPL), K9FHI - 181, W9CBE - 173, W9YCV - 119, and K9DHR - 106.

There were ten Wisconsin stations submitting Public Service Honor Roll reports, and twenty nine stations submitted Station Activity Reports.

I mail my reports to League Headquarters on the 7th of the month. That makes the deadline for reports (to me) the 6th. I can accept reports until I start printing them up for mailing. If you can catch me

Continued on page 11



Washington County Amateur Radio Club

Tom Waldschmidt, N9LZW,
Secretary
465 Elder Lane
Allenton, WI 53002-9799

Club Repeater: 146.73 MHz

MEMBERSHIP MEETING November 9, 1995

The November 9, 1995 membership meeting of the Washington County Amateur Radio Club was called to order at 7:35 p.m. by Vice-President Gary Sutcliffe, W9XT.

The minutes of the October meeting were read by Secretary Tom, N9LZW. There was a motion by Chris, N9ZES, seconded by Mark, N9UGH, to approve the minutes as read. Motion carried.

The Treasurer's Report was given by

Treasurer, Dave, KA9RNU. There was a motion by Chris, N9ZES, seconded by Mark, N9UGH, to accept the Treasurer's Report.

REPEATER COMMITTEE

A repeater committee report was given by Don, K9GR. Don explained that the preamp has now been repaired. The problem was simply an open connection at a solder terminal.

Continued on page 11

Washington County Amateur Radio Club

Continued from page 10

There was some discussion regarding the duplexer and transmitter and/or receiver shields which may need to be obtained and installed.

ARES REPORT

Tom, N9LZW, reported that there were only two stations participating in this year's SET. The SET was intended to acquaint members with the operation of the Emergency Government Station.

SATURDAY MORNING BREAKFAST

Larry, WB9BVB, the club's Food Chairman, reported that this Saturday's breakfast location would be at the Slinger Inn.

OLD BUSINESS

Gary, W9XT, reminded members that the Hartford Christmas Parade was this Sunday, November 12, beginning at 2:00 p.m. Joel, K9MLD, explained that there would be a mobile unit in cross-band operation near the center of Hartford's parade route with those on the south side of town using 2 meters and those on the north using 70cm rigs.

Gary, W9XT, noted that the club is still in need of a volunteer for the Program Chairman position.

NEW BUSINESS

Don, K9GR, suggested that we select a nominating committee to offer a slate of

officers for next year. Don volunteered for this committee and was joined by Sherm, W9NGT, and Paul, W9SIZ.

Those members who are planning to attend the Club's annual banquet were polled to determine where it would be held. The result of the polling was Timmers on Big Cedar Lake.

Dave, KA9RNU, moved that the club authorize the treasurer to make a deposit for the club's banquet if one is required. The motion died without a second.

There was a motion by Sherm, W9-NGT, seconded by Paul, W9SIZ, to adjourn the meeting. Motion carried.

Respectfully submitted:
Tom, N9LZW, Secretary

Following the meeting Dave Barrow, N9UNR, presented information on, and a demonstration of, Omnifist. Omnifist is an on-line communication system operated by the Board of Regents of the University of Wisconsin System. Dave maintains the ham radio portion of Omnifist. Omnifist is an on-ramp to the information highway and allows access to the Internet to paid subscribers. The annual subscription cost is \$25.00. Thanks Dave for this interesting demo.

Saturday Morning Breakfast Schedule

12/02/95, 9:00 a.m., Jimmy's Restaurant in Jackson

12/09/95, 9:00 a.m., Slinger Inn in Slinger

12/16/95 9:00 a.m., Round the Lakes II, Hartford

12/23/95 9:00 a.m., Fay's Restaurant in West Bend

12/30/95, 9:00 a.m., Parkside Cafe in Jackson

Taylor County Area Amateur Radio Club

Mike Schoenfuss, N9GHZ, Secretary

P. O. Box 401 • Abbotsford, WI 54405-0401

MEETING ANNOUNCEMENT

The next regular meeting will be held on Thursday, December 7th at 7 p.m. in the Emergency Government meeting room located in the basement of the sheriff's annex to the Taylor County Courthouse, corner of 2nd and Ogden Sts., Medford, WI. Talk-in on the 147.15 Medford repeater (+600 kHz) or 146.52 MHz simplex.

EXCERPTS FROM MINUTES OF OCTOBER 5, 1995 MEETING

Meeting was called to order by President N9GEN. Present were N9GEN, KE4FE, AA9LE, W9QHI and WD9FWP. Secretary N9GHZ was absent. The summary of the minutes of the September 7, 1995 meeting was read, reviewed and accepted as printed in Badger State Smoke Signals. There was no treasurer's report as Treasurer KA9WDX was absent.

W9QHI indicated that he has in his possession a box of computer printer paper that he would like to get rid of, and that if someone wanted to buy it from him, he would donate the proceeds of the sale to the club.

It was mentioned that there is a packet frequency coordination application form in the back of the October, 1995 issue of Badger State Smoke Signals, and that it needs to be filled out and returned in order to have the Medford packet radio LAN node listed in future ARRL repeater directory packet radio listings.

Meeting was adjourned.

8:30 p.m. on the Medford repeater(147.75/147.15). If the repeater is down or not functioning properly, alternate frequencies, in order, are 147.15 MHz simplex and 146.52 MHz simplex. You're also encouraged to volunteer for net control duty for the net.

CONGRATULATIONS TO..

✓Todd Stark and Harold Horton, both of Medford, who passed the exams to qualify for Technician Class licenses at the VE Amateur Radio exam session held on 10/21/95 in Medford, Wis. They have both already received their call signs. Todd is KB9LWW and Harold is KB9LWV. They are both now on 2 meters and both are now members of the Taylor County Area Amateur Radio Club.

✓Paul Goetsch of Cornell who recently passed the Element 2 and 3A exams to qualify for a Technician Class license.

Paul has also already received his Amateur Radio license and his callsign is KB9LSG. He is now on 2 meters, base, mobile and portable. Paul was a student in the Amateur Radio license exam preparation course taught by N9GHZ this past summer.

OTHER NEWS

✓Nadeen Sahr of Lublin has received her Amateur Radio license, and her callsign is KB9LKZ. She is now on 2 meters. Her husband is Jim, N9IFA, and her son Tom is N9MED. She was a student in the Amateur Radio license exam preparation course taught by N9GHZ this past summer.

✓Here are the results of the VE Amateur Radio examination session that was held on 10/21/95 in Medford, Wis.: There were a total of 5 Volunteer Examiners who assisted with running the session: N9GHZ, N9GEN, AA9LE, KA9WDX, and N9-IDW. Thanks to all of them for their help. A total of four persons took exams at this session. Three of them went from no license to no-code Technician class. In addition, one of the three also passed the Element 3B (General Class theory) exam.

Mancorad Radio Club

John Meyer, NZ9Z, Secretary

P.O. Box 204 • Manitowoc, WI 54221-0204



2-Meter Repeater: 146.01 Input/146.61 Output

MEETING MINUTES November 8, 1995

The November meeting was called to order by club president Red, N9GHE, at 7:30 p.m. Red began the meeting by reminding members that annual dues are due now and need to be paid by the December meeting in order to keep your membership in good standing and your issues of Badger State Smoke Signals coming.

The minutes from the October meeting were approved as printed in the Smoke Signals. The treasurer's report was approved as read by Treasurer Glenn, AA9-MT. Glenn will see if Chuck, W9BZU, will once again do the auditing honors.

Ron, WS9X, brought members up to date on the W9DK repeater. All macros are the same as they were in the past. The voice ID will now activate only on an initial keyup after 10 minutes have passed -- ID's during QSO's will be CW. Macros will be in place which will announce club events. The main one will be 99*. If there is more than one announcement, the repeater will announce the numbers of the other macros. Ron also announced that, weather permitting, there will be a t-hunt Sunday (11/12).

Howard, KE9YD, announced that a local InterNet link is being set up with Lakefield Telephone (758 exchange). Plans are to include Two Rivers in the future.

Red asked for volunteers for running the new ham classes which will start in January. Eric, WD9IAB, Steve, N9PBL, and myself, NZ9Z, volunteered. More are still needed, though, to help spread the work around -- if we get a couple more volunteers, each will only need to teach two or three weeks.

Ron announced that he will be teaching computer classes for 2-3 weeks in January. Learn the workings of the various components -- tear a computer apart and build

another one.

Red submitted an amendment in writing to Article 7 of the club constitution. Steve, N9PBL, submitted a written amendment to Section 5b of the By-Laws to go along with Red's amendment.

The amendment to Article VII is as follows:

Sec. 1 This Constitution or the By-Laws may be amended by a 51% vote of the total membership attending the meeting and in good standing. Proposals for amendment shall be submitted in writing at a regular meeting and may not be voted on until the next regular meeting.

The amendment to Section 5b is as follows:

B. Where the Constitution or By-laws require a vote of the club membership, such vote(s) may be submitted to the club in writing as a means of exercising an absentee vote.

These amendments will be voted on at the December 13th meeting. Written proxies will be allowed if attendance is impossible. Phone calls will be made to ensure that all members in good standing have received the Smoke Signals and are aware of the vote.

Call the club president for signout of club equipment.

Steve read a letter from the Leukemia Society, Wisconsin Chapter expressing their gratitude for the club's help in the Scenic Shore 150 ride this summer. The dates for next year's ride are July 27 and 28th (we can't say we weren't warned early!)

Howard and Gene (WB9DQD) (who

Please turn to page 12

CLARK/TAYLOR COUNTY AMATEUR RADIO EMERGENCY SERVICE (ARES) NEWS

Mike Schoenfuss, N9GHZ
ARES Emergency Coordinator

Don't forget to try to check into the weekly ARES net held Wednesdays at

Eau Claire Amateur Radio Club

Carl Searing, W9NW, Secretary

1129 McKinley Road • Eau Claire, WI 54703

MEETING MINUTES 14 November 1995

The meeting was opened at 1930 hours by Bert Spangler, W9ZZI, with about 30 members present. Secretary's and treasurer's reports were read and approved.

Many thanks to N0AKC, who brought some computer material to be raffled off.

The evening's main topic of business was the annual Christmas party, to be held on December 12, 1995, a regular Thursday meeting night. We will be in room 36, on the third floor. Members are reminded that, as usual, this is a dish-to-pass, bring-your-own utensils and plates affair. Judy and Bert Spangler volunteered to bring sliced ham and buns. Thus, under the circumstances, everybody is on the lunch committee for December. Nolene Harlson once again is taking care of prizes. Every-

body come!

Joe Eide, KB9R, commented that he has initiated tone operation (100.9) on his 443.3 repeater because of long-standing interference problems. Also, Joe was once again supplied with funds by the club for the purchase of the Sam database to aid him in maintaining the club roster.

The matter of obtaining club T-shirts, being handled by Carol Ceraso, N9TUA, was deferred to the January meeting.

The date and location of the ECARC 1996 hamfest is still in limbo.

Meeting adjourned at about 2015 hours. N0AKC brought some moonbounce tapes and equipment, which many members listened to during the goodies and coffee session.

Respectfully submitted:
W9NW, Secretary

Wisconsin Nets Association

Continued from page 10

on the BWN on the morning of the 7th, all would be well.

Hale Blakely, W9CBE, will also accept reports and forward them to me. Hale covers the CW nets and most of the SSB nets, so there is someone on almost every net to take reports.

Reports can also be sent via packet. My packet address is KA9KLZ @ NX9V.#SWWI.WI.USA.NOAM.

NX9V forwards directly into my PBBS, so getting reports to me is not dependent on me checking into the NX9V mailbox.

Thanks to all stations who participate in the Wisconsin nets. You are the nets, and Wisconsin nets are the best.

73.

Arthur A. Evans, KA9KLZ
Wisconsin Section Traffic Manager
November 7, 1995

Red Cedar Repeater Association, Inc.

Steve Hart, KA9OMC, Secretary

E616 810th Avenue

Knapp, WI 54749

2-Meter Repeater: 146.01 Input/146.61 Output

Greetings RCRA sponsors and guests,

The last social hour was held at the Dunn County Sheriff's Department on Oct. 24th. The nature of our visit was to tour the E911 facilities that have recently been installed there. The tour was conducted by supervisor Greg Lawrence. While the complete coverage of the entire area is ready to be turned on, Greg explained that the actual event would take place on December 15th.

The following were in attendance:

KB9AGC	Melvin Stang
KC9CT	Chuck Bricton
NX9F	Jim Ley
KF9CU	Arlene Kraft and OM Dave
WB9YMB	Jim Hilborn
KA9OMC	Steve Hart
K9KGB	Bill Duncan
WD9IJV	Richard Nesja

Happy to report that K0DL, Don Lund, is back on both legs after a bad fall this summer.

K9IAG, Ken Drake, is interested in the band below broadcast. Any info would be greatly appreciated.

KE9RW, Steven Kraft, has sent the RCRA a thank you for the money he received "Something for Youth".

Sorry to report that sponsor KA5-WCQ, George Johnson, has gone silent. George had been retired from teaching in the Colfax area for some years and enjoyed his time fishing, building antennas and keeping schedules on 15 and 20 meters with the gang back in Menomonie. Many of the hams attending coffee on Saturdays will recall the cases of soap George brought back from Mexico that he handed out to all in attendance. Even though George was nearing the big 90, he

remained active on HF, 2 meters, packet and computers. A recent picture of his setup even displayed his code key in the middle of the desk demonstrating his willingness to enjoy all the aspects of the hobby.

N9WJY, Rod Steele, reports that the 145.27 MHz repeater is now on the air at New Richmond, but is not yet linked to the 145.47 MHz repeater at Holcombe.

WA9CCB, Louis Forster at Durand, has had surgery and is home and looks to be completely recovered. Louis has indicated that he may also be attending a WW2 gathering in Milwaukee scheduled for next summer. Also, many thanks too for the equipment donated to the RCRA from Louis.

Many thanks to our most recent sponsors that have renewed their pledges for the up coming year. They include N9TTV, Glenn Thompson, KG9CT, Chuck Bricton, N9ZFY, Everett Biles, K9IAG, Ken Drake and WB9YMB, Jim Hilborn. Other additional support included KF9CU, KE9RW, Arlene and Steve Kraft on the food label drive and WB9WKO, Ron Purvis, on the can drive. Thanks to you all for your support.

A reminder that we are nearing our fiscal year at the repeater and encourage all users to renew your support for our wide area system.

There will be no meeting for the month of December, but please plan on attending the January 23rd social hour at the Cornucopia Restaurant in the T-Bird Mall Menomonie. Meeting time is 7:30 p.m. We will discuss needs for the February Auction in Eau Claire. Volunteers are needed.

Happy Holidays from the RCRA Staff!

Mancorad Radio Club

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was "volunteered" by Howard) will coordinate programs at meetings. Steve made a motion to allow the program coordinators to spend up to \$25 per program for expenses. Eric seconded the motion, and it passed.

Mary, KB9GOY, will look into a club Midwinter Banquet in February at the Cedar Ridge Restaurant.

The meeting was adjourned at 8:20 p.m. and refreshments were served.

*Submitted for approval:
John Meyer, NZ9Z, Secretary*

MEETING ATTENDEES

Red	N9GHE
Glenn	AA9MT

John	NZ9Z
Eric	WD9IAB
Dave	KB9KQA
Jim	N9KGG
Theresa	KB9KXE
Gene	KB9KXF
Mary	KB9GOY
Ken	K9HAG
Bill	N9XEZ
Oran	N9VIA
Craig	N9VIC
Denise	N4WGG
Roger	W9NPX
Charlie	W9GXD
Ken	WB9OBX
Clancy	KB9ECW
Vic	WB9VYO
Bob	KB9INK
Gene	WB9DQD
Steve	N9PBL
Barney	N9XER
Len	N9QFO
Howard	KE9YD
Paul	N9QFX

Racine Megacycle Club

Alex Voss, N9RGX, Secretary

3333 Standish Lane • Racine, WI 53405

MEETING MINUTES MONDAY, NOVEMBER 13, 1995.

The meeting was called to order by president Paul Smedegaard, N9RGW at 7:31 P.M. local time. Those present were asked to introduce themselves with name and call sign.

Paul, N9RGW, President
Bridget, N9XGX, Vice-President
Dave, AA9HL, Treasurer
Alex, N9RGX, Secretary
Bruce, K9RRS, Activities Director
Tony, N9ZWM

Cheryl, WS9P
Larry, WA9JMO
Joyce, N9YGC
Dennis, KG9DO
Ken, N9WHR
Leah, KB9KUA
Dennis, WB9SVM
Rev. Jim, WA0PFV
Bill, W9ERG
Jean, W9ERG/XYL
Fern, W9LCJ
Jim, N9SEM
Pam, KB9LPC

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Quarter Century Wireless Association Southeastern Wisconsin Chapter 162

Larry McCalvy, WA9JMO
5400 Six Mile Road
Radne, WI 53402



Our November meeting, held at the Wustum Museum of Fine Arts, began with a guided tour of Depression Art (late 1930's - early 1940's; Westum currently has the largest collection of this medium in the Midwest) by Wisconsin Watercolor Artists. The watercolor artist's display of about forty pieces of art. The short meeting that followed found our secretary's minutes and the treasurer's figures from the previous month flawless. The twelve members and guest enjoyed the three Racine Kringles and coffee provided by past president, Bill Komistra, W9OVZ. The cherry cheese and apple were very tasty. Again, thanks Bill.

Our Christmas dinner meeting will be held on Sunday, December 10th at the Meadows Restaurant, 10615 Northwestern Avenue in Franksville beginning at 1:00 pm. Take I-94 to Racine county Hwy "K", head East for about two miles and the restaurant is on the South side of the road just before the railroad tracks. Each attendee is asked to bring a gift for exchanging. Five dollars or less in value and wrapped in red for a women's gift and in green for a man's. Cards will be sent as reminders.

Chuck Knotek, W9GKM, has again volunteered to draft and distribute our 1996 calendar of events. The January 1996 meeting will take place on Monday, January 15th, possibly in Kenosha, and our February Valentine's social bash should be held on Sunday, the 18th of February. Dates, times and places are still to be determined.

Our Club Call has arrived! KB9LUI. It has seen limited activity, mainly on the weekly Chapter net. But we are anticipating bigger and better club functions when and if the weather turns warmer, much warmer!

At this writing, Spencer Clope, W9-LDH, is hospital-bound for a little cataract eye surgery. So when he again soars with

the eagles, he'll be able to observe mice at play far below his flight pattern. Best of luck to you, Spence!

Also under the weather is Travis Baird, W9VQD, recuperating from last December's pacemaker surgery initiated by an irregular heartbeat and some setbacks during this past year's recovery program. Travis would very much like hearing from us. A card -- QSL and/or greeting -- would be very much appreciated. Travis can be reached at: Travis Baird, W9VQD, in care of Shores Nursing Home, Room 141, 6925 North Port Washington Road, Glendale, WI 53217. Speedy recovery, Travis.

The Greater Southeastern Wisconsin Amateur Radio Awards Banquet is coming up Saturday evening, the 24th of February 1996. Mark your calendars. And start thinking about awards. The Ham of the Year committee needs your written nomination for a Ham you think is deserving of this recognition. Also, I, as the Awards and Banquet Chairman, am looking for written nominations for individuals deserving recognition with a Certificate of Meritorious Service or one of Appreciation. If there is a non-Ham, a business or corporation, you feel is deserving of special notice for their contribution to our community and Amateur Radio, please state your reasons in writing and mail them to me: Larry McCalvy, WA9JMO, 5400 Six Mile Road, Racine, WI 53402 or FAX them to (414) 639-3320. Banquet details will be available on flyers in early December. Assistance, suggesting and/or general help with this event is always greatly appreciated.

★From myself, the members, their families and the officers of Chapter 162, QCWA, a Very Merry Christmas and a Healthy, Prosperous New Year.

73, Larry McCalvy, WA9JMO



SHEBOYGAN County Amateur Radio Club

Mike Musiel, KF9SJ, Secretary
N9001 Dairyland Rd., Cleveland, WI 53015

The November meeting of the Sheboygan County Amateur Radio Club was called to order by Chris, N9VKC. The SCARC meets at the Red Cross Building, 2032 Erie Ave., Sheboygan WI at 7 p.m. on the second and fourth Tuesday of the month. There is usually no general membership meeting in February, because of the Banquet, and July, because of Field Day.

SILENT KEYS

It is with deep regret that I announce that Robert Stoneman, N9RCZ, and Andrew Howers, W9QYZ, have become silent keys. The club membership will miss them dearly.

CLUB MEETING NOTES

It's time to start thinking about your ham of the year nominations. The deadline tends to sneak up on you! This also means the club banquet is approaching. The dinner will again be held at Klemme's Wagon Wheel Restaurant in Howard's Grove. This year's date will be the 17th of February at 6 p.m.

The club equipment used for Field Day is now stored at Mike's, KF9SJ, for the winter. The club hopes to have a permanent storage location by spring.

Kurt, N9ZMO, has started up a club newsletter, to be distributed at the meetings. The first issues were available at the November meeting, and were quite impressive.

Penny, N9TCF, presented a a video

program, and description of Paul Bittner's contest station, W0AIH. One word comes to mind.. WOW! Thanks Penny, for a very interesting subject.

Thanks to Jan Bruegl for the snacks! As usual, they were great. We are looking for volunteers to sign up to bring in the club treats. Please contact any board member if you would like to sign up.

K9JHK MEDICAL FUND

A fund is being set up for medical expense for Jerry Klabunde, K9JHK. Jerry is awaiting a heart transplant at the University of Wisconsin Hospital in Madison. Our thoughts and prayers go out to him. If you would like to help, please contact a board member for more information. I do not have all the details at press time.

FOX HUNT NEWS

There was no fox hunt in November, since it would have been during the opening weekend of deer season. The next fox hunt should be December 16. Please stay tuned to the Monday night fun net for details.

A traveling fox hunt trophy is being donated by Penny, N9TCF.

Joe, N9REH, has built a new fox hunt transmitter. The new fox still will transmit a digitized voice signal, but now is housed in a Motorola H/T. The lower power output, and smaller size will make this easier to hide. Thanks Joe, for the many

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Racine Megacycle Club

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Ken, N9ZOT
Dave, WB9USI
Don, KB9HAM
Spence, W9LDH
Bob, W0WLN
Pete, KB9LXM (Fmr. KB8AMG)
Dick, N9EWD
Bill, W9OVZ
Ken, N9NBC
Lee, N9VNU
Rob, KF9ZT
Gene, WB9ZKY
Jim, KA9LOK
Mary, N9ZWE
Al, N9ZWJ

23 Voting members were present.

The Secretary's report was accepted as read with one correction. Bruce, K9RRS, has a BBS, not a PBBS.

The Treasurer's report was accepted as read.

The custodian of the ham class funds report was accepted as read.

Alex, N9RGX, brought up that the Mayor of Kenosha has ordered the Kenosha City Attorney to draft a nuisance ordinance concerning Citizens Band Operators. He passed out a flyer with a copy of the *Kenosha News* article (see last month's issue of BSSS) and a copy of the Racine Ordinance from which the Kenosha ordinance will be modeled. It was mentioned that Ray, WB9LST, has talked with the city Attorney's office and that Dwayne, N9PYA, has contacted Michael Kehoe, WB9PZI, a Kenosha area attorney. Secretary Alex, N9RGX, shall write a letter to the Kenosha City Attorney's Office stating the Racine Megacycle Club's views on this matter. The letter will be reviewed by the board of directors.

This being the November Meeting, it is time to set the dues for the 1996 year. Jim, WA0PFV motioned "That the dues stay the same". the motion was seconded and after much discussion the motion passed. The Rates for the 1996 year are: \$15.00 with *Badger State Smoke Signals*, and \$6.00 if you receive the Smoke Signals through another organization.

Dave, AA9HL, mentioned the Trolley Ride for the December meeting on Monday, December 11, 1995. At the Chart Room restaurant. You must have a ticket in order to attend. The evening will start off at 7:15 with an all you can eat chicken dinner. The trolley will leave at 8:00. The trolley people also sent a note along:

A few tips for our Trolley Travelers

Our beautiful trolleys are heated but sometimes drafty. Please dress warmly, especially your feet. Through your generosity we have been able to distribute more than 10 tons of nonperishable food items. Please bring your contribution to the Chart Room collection bin. If every passenger on this year's Christmas trips dropped a dollar in the Trolley collection box, the Kiwanee's could add ten new lighted animals to next year's zoo show.

Dave, WB9USI said that you should show up for the trolley at 6:30 in order to meet with everyone. Once the meal has started it moves pretty quick.

Bob, W0WLN, asked if we could have a report on computers received without cost, if any. Dave, AA9HL, said we have received 1 from Johnson's.

Cheryl, WS9P, brought up the HAM OF THE YEAR award. The ham of the year award is given to a ham at the Annual Ham Banquet. She said that the past recipients of the award are accepting nominations for the 1996 Ham of the Year.

Larry, WA9JMO, said that the Annual Ham Banquet Awards committee is looking for nominations for meritorious service award be submitted in writing.

RACINE MEGACYCLE CLUB ELECTIONS

A motion was made and seconded that the two nominees with the highest number of votes be elected in run-off election, unless there is a clear majority of more

You are invited to attend Racine and Kenosha Ham Radio meetings!

RACINE HAMS MEET FOR BREAKFAST EVERY MONDAY, WEDNESDAY AND FRIDAY AT 8:00 a.m. at
Reflections Family Restaurant
2913 Taylor Avenue
Racine, Wisconsin
Talk-in 147.270 +

SATURDAY BREAKFASTS
Saturdays at 8:00 a.m., Athens (Restaurant), 2100 Douglas Avenue
Racine, Wisconsin
Talk-in 147.270 +

TUESDAY-THURSDAY BREAKFASTS LOCATION VARIES
Contact Rick N9UBO @ K9RRS.#EN62GK.WI.USA.NOAM
TALK-IN 147.270 +

WEEKLY NETS

SUNDAY
10-10 Net on 28.455 MHz at 1:00 p.m.

MONDAY
10-10 Net on 28.455 MHz at 8:00 p.m.

WEDNESDAY
ARES Practice Weather Net
147.270 + MHz at 7:00 p.m.

Kenosha Chat Net
147.270 + MHz at 8:00 p.m.

THURSDAY
Kids-R-Us Net
147.270 + MHz at 7:00 p.m.

QCWA Chapter 162 Net
147.270 + MHz AT 9:00 PM

WANT TO CHAT? LOCAL FREQUENCIES

28.455 USB
145.530 Packet (Local BBS: K9RRS)
146.460 FM Simplex
147.270 + W9UDU/R (No PL)
223.800- KC9NG/R PL 127.3
224.800- WB9LST/R PL 114.8
442.000 + W9UDU/R PL 127.3
442.200 + N9OEZ/R PL 103.5
443.950 + KA9JMK/R PL 127.3
444.050 + KA9LOK/R (NO PL)
444.950 + WA9BDX/R PL 114.8

than 50% of the votes present. The motion passed.

Those present who were not voting members were asked to raise their hands. There were three non-voting members.

NOMINATIONS FOR OFFICERS:

PRESIDENT
Rob Madson, KF9ZT
Bridget Johnson, N9XGX

VICE-PRESIDENT
Ken Kuchar, N9WHR
Dennis Doonan, KG9DO
Joe Schimanski, KB9HSJ

SECRETARY
Alex Voss, N9RGX
Bridget Johnson, N9XGX

TREASURER
Dave Geschke, AA9HL

ACTIVITIES DIRECTOR
Bruce Zabler, K9RRS
Lee McKnight, N9VNU
Don Parkinson, KB9HAM

The 1996 board members for the Racine Megacycle Club are:

PRESIDENT: Rob Madson, KF9ZT
VICE-PRESIDENT: Ken Kuchar, N9WHR
SECRETARY: Alex Voss, N9RGX
TREASURER: Dave Geschke, AA9HL
ACTIVITIES DIRECTOR: Lee McKnight, N9VNU

A round of applause was offered to the past officers.

The Goodie Box went to the Vice-President-Elect Kenny, N9WHR.

The meeting was adjourned.

Respectfully Submitted:
Alexander Voss, N9RGX
Secretary,
Racine Megacycle Club

Sheboygan County Amateur Radio Club

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hours of effort you have put into this project.

NETS

NOTICE! The Sunday night packet net is now being organized by Josh, KG9BO. If you would like to participate, contact Josh at KG9BO-3 on the Sheboygan LAN frequency of 144.99 MHz. He is in the process of finding what day and time would be best for this net.

Monday Night Fun Net. Meets at 7

p.m. local time on 147.06 MHz (+107.2PL). All with an Amateur Radio license of Technician class or higher are welcome to check in to this informal get together.

Monday Night 10 Meter Fun Net.
Meets around 7:30 p.m., generally following the 2 meter net. The net meets on 28.350 MHz (USB), and all code class Amateur Radio operators are welcome to check in.

Sunday Morning Coffee Clutch and G5RV Net. The net meets at 9 a.m. local time on 3.860 MHz (LSB). All radio amateurs of General Class or higher are welcome to attend. Now that the Winter season is arriving, I expect this net will become lively again.

Submitted by Michael J. Musiel, KF9SJ

Fun and Frolic on 160 Meters



While browsing the photo piles (not files.. piles), we came across this picture of BSSS Chairman/Publisher Ken Ebner, K9EN. It was taken some time around 1980 at the WBOO (now WRPQ) transmitter site in Baraboo. The occasion was a 160-meter contest, and it was an all-night operation. Using the station's 266-foot tower by permission of then-owner Burt N. Murphy, W0DWG (now a Silent Key), 330 contacts were made from station sign-off to station sign-on the next morning. The antenna, like most AM towers, has 120 330-foot radials, and it played beautifully on 160. The call sign used was K9ODK, a memorial club call of the Yellow Thunder Amateur Radio Club. K9ODK, Bob Prine, of Baraboo, became a Silent Key in 1974. □

Badger State Smoke Signals

The Wisconsin Area's Monthly Amateur Radio Newspaper

COMMERCIAL ADVERTISING RATES

Schedule #4 • July 1, 1994

Supersedes all prior rate schedules

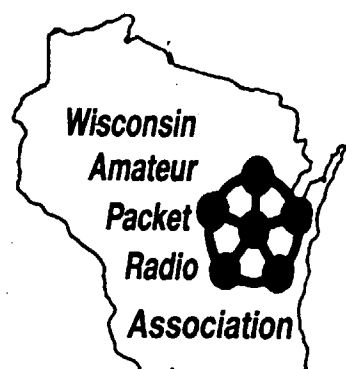
COLUMN INCHES	1 TIME	2 TIMES	3 TIMES	4 TIMES	6 TIMES	12 TIMES
24 to 48	2.85	2.65	2.45	2.25	2.10	1.90
13 to 23	3.15	2.95	2.75	2.60	2.40	2.20
7 to 12	4.10	3.75	3.45	3.15	2.85	2.50
3 to 6	4.40	4.10	3.75	3.45	3.15	2.85
Business Card (2 col. inches)	9.40	8.75	8.15	7.50	6.90	6.25 (75.00 per year)

One column width is 3.2 inches. A page is 3 columns by 16 inches height for a total of 48 column inches. Rates for other than the exact column width will be adjusted based on square inch equivalent column size. (Column inches equals square inches divided by 3.2.)

Rate is based on the total number of times per year for the same size or larger. Copy can be changed anytime. Rate is for camera ready copy. There are additional charges for copy requiring set up. Charges will depend upon the amount of setup work required, and will be based upon actual cost.

Ads submitted for publication qualify for a two percent discount if payment accompanies the ad and insertion order. Ads which will run for two years qualify for an additional 5 percent discount.

For further information, contact BADGER STATE SMOKE SIGNALS, c/o Kenneth A. Ebner, K9EN, 822 Wauona Trail, Portage, Wisconsin 53901, (608) 742-3560, or Jim Romelfanger, K9ZZ, 412 1/2 Ash Street, Baraboo, WI 53913, (608) 356-4031. □



THE WISCONSIN PACKETEER

Wisconsin Amateur Packet Radio Association (WAPR)

Bob Gedemer, KA9JAC

609 Wilson Street, Neenah, WI 54956

Andy Nemec, KB9ALN, Editor, 1250 Main Street, Green Bay, WI 54302

Season's Greetings!

Happy Holidays from WAPR! And the best wishes from all of us for a happy and prosperous New Year.

As of deadline time, we were unable to transmit the minutes from the last meeting held in Onalaska, Wisconsin. I was unable to make that meeting, so we had to rely on transcriptions that weren't able to get together in time to make the deadline. We will have them next month, and apologize for not having them here.

Instead, we will present some other info to you. Our frequency coordinator Steve, KE9LZ has forwarded a note along with his current list of WAPR-Coordinated nodes in the state. He does expect that it is not up-to-date, and that is why we are presenting it here. This will give folks a chance to review it before Steve sends his coordination information off to the ARRL. If you are a node or BBS operator, please look at the list and see if you are on it! Below is Steve's note and the list.

73 and Happy Holidays, Andy KB9ALN.

Hi All, Well it's getting to be about that time of the year again. I need to get an updated list to the ARRL by December 15th for publication in the repeater directory. Below you will find the list as I have it. I have in the past months been asking for updated information and have got some but still missing a bunch. If you find that your node is not on the list or if it is and it don't have a * next to the source I need to hear from you. Please fill out one of the application forms and get it back to me before the deadline.

WAPR/WAR/ARRL Wisconsin Packet Coordination Statewide List By City

Location	ST	Freq-Mhz.	Alias	Call	Type-Notes	Sponsor	Source
Algoma	WI	145.050	WIALG	KE9LZ-8	N-NODE-TheNetX1JR4	KE9LZ	* WAPR
Algoma	WI	446.100	#446AG	KE9LZ-7	N-NODE-TheNetX1JR4	KE9LZ	* WAPR
Algoma	WI	446.675	#WIMI	KE9LZ-6	N-NODE-TheNetX1JR4	KE9LZ	* WAPR
Appleton	WI	145.650	WIAP1	KB9BYQ-5	N-NODE-TheNetX1JR4	KB9BYQ	* WAPR
Appleton	WI	446.100	#APL4	KB9BYQ-6	N-NODE-TheNetX1JR4	KB9BYQ	* WAPR
Appleton	WI	446.200	#APPLE	KB9BYQ-8	N-NODE-TheNetX1JR4	KB9BYQ	* WAPR
Baldwin	WI	145.690	WIBALD	W9AVX-1	N-NODE-TheNet	SCVRA	WAPR
Baraboo	WI	50.620	#BOO6	N9QIP-6	N-NODE-TheNet	W.I.N	WAPR
Baraboo	WI	144.990	WIBOO	N9QIP-7	N-NODE-TheNet	W.I.N	WAPR
Baraboo	WI	145.010	-----	Proposed	N-NODE-TheNet	W.I.N	WAPR
Baraboo	WI	446.100	-----	Proposed	N-NODE-MSYS	W.I.N	WAPR
Baraboo	WI	446.375	WIB004	KE9KX-4	N-NODE-TheNet	W.I.N	WAPR
Baraboo	WI	446.375	WISAUK	N9QIP-9	N-NODE-MSYS	W.I.N	WAPR
Baraboo	WI	446.675	#BOO2	KB9AP-2	N-NODE-TheNet	W.I.N	WAPR
Bayfield	WI	145.010	WIBFD	NOELB-1	N-NODE-TheNet	NOELB	WAPR
Bayfield	WI	50.620	#BFD6	NOELB-6	N-NODE-TheNet	NOELB	WAPR
Burlington	WI	223.580	#WIBUR	N9BYS-3	N-NODE-TheNet	N9BYS	WAPR
Cedarburg	WI	145.570	OZLAN	WB9RQR-7	N-NODE-TheNet	OZARES	* WAPR
Cedarburg	WI	145.610	AROZKE	WB9RQR-11	N-NODE-TheNet	OZARES	* WAPR
Cedarburg	WI	446.100	#WIOZ	WB9RQR-8	N-NODE-TheNet	OZARES	* WAPR
Chip. Falls	WI	50.740	#CFL6	WD9HFT-6	N-NODE-TheNet	WD9HFT	WAPR
Chip. Falls	WI	145.690	WICHIP	W9NNS-5	N-NODE-MSYS	W9NNS	WAPR
Chip. Falls	WI	50.740	BBSCL	W9NNS-5	N-NODE-MSYS	W9NNS	WAPR
Crivitz	WI	145.510	WICRIV	KE9LK-7	D-DX-NetWork	KE9LK	* WAPR
Crivitz	WI	145.770	WIMAR	KE9LK-6	N-NODE-TheNetX1JR4	KE9LK	* WAPR
Crivitz	WI	446.100	#446CR	KE9LK-8	N-NODE-TheNetX1JR4	KE9LK	* WAPR
Delafield	WI	144.910	-----	NB9C	D-DX-NetWork	NB9C	WAPR
Delafield	WI	223.480	-----	NB9C	D-DX-CLUSTER	NB9C	WAPR
Durand	WI	145.010	WIDUR	WB9NTO-1	N-NODE-MSYS	WB9NTO	WAPR
Durand	WI	145.69/01	WIDND	WB9NTO-5	N-NODE-TheNet	WB9NTO	WAPR
Durand	WI	446.025	-----	-----	N-NODE-MSYS	WB9NTO	WAPR
Eau Claire	WI	145.010	WIEAU	W0A1H-1	N-NODE-TheNet	W0A1H	WAPR
Elkhorn	WI	145.050	IPELK	N9LOH	N-NODE-TheNet	N9LOH	* WAPR
Elkhorn	WI	145.670	IPELK	N9LOH	N-NODE-TheNet	N9LOH	* WAPR
Elkhorn	WI	223.580	IPELK	N9LOH	N-NODE-TheNet	N9LOH	* WAPR
Exeland	WI	50.740	#NNS6	W9NNS-6	N-NODE-TheNet	WAPR	WAPR
Exeland	WI	145.690	WINNS	W9NNS-1	N-NODE-TheNet	WAPR	WAPR
Freedom	WI	144.910	AA9A	M-DX-NetWork	AA9A	WAPR	WAPR
Freedom	WI	223.480	AA9A	D-DX CLUSTER	AA9A	WAPR	WAPR
Green Bay	WI	145.070	WIGRB	KE9LZ-5	N-NODE-TheNetX1JR4	KE9LZ	* WAPR
Green Bay	WI	446.100	#446GB	N9CFN-4	N-NODE-TheNetX1JR4	N9CFN	* WAPR
Green Bay	WI	446.425	#GRB4	KE9PW-5	N-NODE-TheNetX1JR4	KE9PW	* WAPR
Holcombe	WI	50.740	#HOL6	N9QVY-6	N-NODE-TheNet	N9QVY	WAPR
Hollandale	WI	50.620	#WIN6	N9QIP-5	N-NODE-TheNet	W.I.N	WAPR
Hollandale	WI	145.050	WINSW	N9QIP-8	N-NODE-TheNet	W.I.N	WAPR
Hollandale	WI	446.375	#WIN4	N9QIP-4	N-NODE-TheNet	W.I.N	WAPR
Jackson	WI	144.910	W19L	D-DX-NetWork	W19L	WAPR	WAPR
Jackson	WI	223.460	W19L	D-DX-CLUSTER	W19L	WAPR	WAPR
Janesville	WI	145.070	W1JVL	KD9JK-3	N-NODE-MSYS	KD9JK	WAPR
Janesville	WI	145.070	W1JVL2	KC9PX-2	N-NODE-TheNet	KC9PX	WAPR
LaCrosse	WI	145.010	W1LSE	WA9FIO-1	N-NODE-TheNet	WA9FIO	WAPR
LaCrosse	WI	223.560	#LZQ2	W9LZQ-2	N-NODE-TheNet	W9LZQ	WAPR
Lodi	WI	145.070	W1LODI	WD9ESU-4	N-NODE-MSYS	WD9ESU	WAPR
Lodi	WI	145.010	W1LOD	WD9ESU-7	N-NODE-TheNet	WD9ESU	WAPR
Lodi	WI	223.565	#LOD2	WD9ESU-9	N-NODE-TheNet	WD9ESU	WAPR

MTWBBS	N9GHE	N-NODE-MSYS	N9GHE	* WAPR	N9GHE	* WAPR
Manitowoc	WI	MATRIX	#WIRED	N9GHE-6	N-NODE-MSYS	N9GHE * WAPR
Manitowoc	WI	223.420	MTWDX	N9GHE-7	N-NODE-TheNet	N9GHE * WAPR
Manitowoc	WI	446.100	#446MT	N9GHE-9	N-NODE-TheNet	N9GHE * WAPR
Markesan	WI	144.970	WIGLK	KB9WC-7	N-NODE-TheNet	KB9WC WAPR
Markesan	WI	446.675	#GLK4	KB9WC-8	N-NODE-TheNet	KB9WC WAPR
Markesan	WI	223.565	#GLK2	KB9WC-9	N-NODE-TheNet	KB9WC WAPR
Medford	WI	145.010	WIMED	N9GHZ-1	N-NODE-TheNet	N9GHZ WAPR
Milwaukee	WI	145.610	WIMKE	WB9SMM-9	N-NODE-TheNet	ARES WAPR
New Berlin	WI	145.090	WINWB	WD9ANY-9	N-NODE-TheNet	WD9ANY WAPR
N. Freedom	WI	145.010	WINFR	WA9SOU-3	N-NODE-NetRom	WA9SOU WAPR
N. Freedom	WI	-----	#NFRB	WA9SOU-3	N-NODE-NetRom	WA9SOU WAPR
N. Freedom	WI	-----	#NFRB	WA9SOU-4	N-NODE-NetRom	WA9SOU WAPR
N. Freedom	WI	145.090	WINPRA	WA9KEC-1	N-NODE-TheNet	WA9KEC WAPR
N. Prairie	WI	223.580	WINPRA	WA9KEC-1	N-NODE-TheNet	WA9KEC WAPR
N. Prairie	WI	446.100	WINPRA	WA9KEC-1	N-NODE-TheNet	WA9KEC WAPR
N. Prairie	WI	MATRIX	WIBBS	WA9KEC-10	M-PBBS-Netwrk	WA9KEC WAPR
Neenah	WI	145.650	WINEE	KA9JAC-5	N-NODE-MSYS	KA9JAC * WAPR
Neenah	WI	144.970	WINEE	KA9JAC-5	N-NODE-MSYS	KA9JAC * WAPR
Neenah	WI	MATRIX	NEEBBS	KA9JAC	N-NODE-MSYS	KA9JAC * WAPR
Neenah	WI	446.200	#NEE6	KA9JAC-6	N-NODE-TheNetX1JR4	KA9JAC * WAPR
Onalaska	WI	145.090	LSE2	WA9FIO-2	N-NODE-TheNet	WA9FIO WAPR
Park Falls	WI	145.010	WIPKF	NC9G-1	N-NODE-TheNet	NC9G WAPR
Park Falls	WI	145.010	-----	KA9EOK-5	N-NODE-MSYS	KA9EOK WAPR
Park Falls	WI	50.740	#PKF6M	NC9G-2	N-NODE-TheNet	WAPR WAPR
Pittsville	WI	145.630	WIPIT	N9BQM	N-NODE-TheNet	N9BQM WAPR
Plymouth	WI	MATRIX	SHEBBS	NF9R	N-NODE-TheNet	NF9R WAPR
Plymouth	WI	223.420	#SHE2	NF9R-2	N-NODE-TheNet	NF9R WAPR
Plymouth	WI	446.100	#SHEB	NF9R-3	N-NODE-TheNet	NF9R WAPR
Plymouth	WI	MATRIX	#SHEX	NF9R-6	M-PBBS-Netwrk	NF9R WAPR
Plymouth	WI	144.990	WISHEL	NF9R-8	N-NODE-TheNet	NF9R WAPR
Plymouth	WI	446.100	#446SH	NF9R-9	N-NODE-TheNet	NF9R WAPR
P. Washington	WI	145.570	PWBBS	N9PBY	N-NODE-MSYS	OZARES * WAPR
P. Washington	WI	145.570	WIPWSH	N9PBY-2	N-NODE-MSYS	OZARES * WAPR
P. Washington	WI	145.630	PWBBS	N9PBY	N-NODE-MSYS	OZARES * WAPR
P. Washington	WI	145.630	WIPWSH	N9PBY-2	N-NODE-MSYS	OZARES * WAPR
P. Washington	WI	446.100	WIPWSH	N9PBY-2	N-NODE-MSYS	OZARES * WAPR
Pt. Edwards	WI	145.010	WIPED	W9IHW-4	N-NODE-PBBS	W9IHW WAPR
Racine	WI	144.910	KS9K	D-DX-NetWork	KS9K	WAPR
Racine	WI	223.448	KS9K	D-DX-LOCAL	KS9K	WAPR
Racine	WI	145.580	WIRAC	K9RRS-1	N-NODE-TheNet	K9RRS * WAPR
Racine	WI	223.530	WIRAC	K9RRS-3	N-NODE-TheNet	K9RRS * WAPR
Racine	WI	446.125	K9RRS	N-NODE-TheNet	K9RRS	* WAPR
Rhineland	WI	145.690	WIRHI	W9ZBD-3	N-NODE-TheNet	W9ZBD WAPR
Rice Lake	WI	145.690	WIRLK	KB9DFE-2	N-NODE-TheNet	W9NNS WAPR
Rockford	IL	145.070	ILRPD	N9HKM-2	N-NODE-TheNet	N9HKM WAPR
Rubicon	WI	446.100	#WIN3	W9JBY-6	N-NODE-TheNet	W.I.N WAPR
Sheboygan	WI	144.910	KR9S	D-DX-NetWork	KR9S	WAPR
Sheboygan	WI	223.480	KR9S	D-DX-LOCAL	KR9S	WAPR
Slinger	WI	MATRIX	WICONV	WB9TYT-6	N-Converse	WB9TYT WAPR
Slinger	WI	145.690	WISLG	WB9TYT-7	N-NODE-TheNet	WB9TYT WAPR
Slinger	WI	446.100	#SLGB	WB9TYT-8	N-NODE-TheNet	WB9TYT WAPR
Slinger	WI	223.565	#SLG2	WB9TYT-9	N-NODE-TheNet	WB9TYT WAPR
Spirit	WI	50.740	#TIM6	NC9G-6	N-NODE-TheNet	WAPR WAPR
Spirit	WI	145.010	WITIM	Proposed	N-NODE-TheNet	----- WAPR
Spooner	WI	145.010	WISPN	KE6WF-1	N-NODE-TheNet	KE6WF WAPR
Stevens Pt.	WI	145.010	WISTE	WB9QFW	N-NODE-TheNet	C.W.R.A. WAPR
Stevens Pt.	WI	145.630	WISTE2	WB9QFW-2	N-NODE-TheNet	C.W.R.A. WAPR
Stevens Pt.	WI	145.510	-----	WB9QFW	D-DX-LOCAL	C.W.R.A. WAPR
Stevens Pt.	WI	223.480	WISTE1	WB9QFW-1	N-NODE-TheNet	C.W.R.A. WAPR
Stevens Pt.	WI	223.480	-----	WB9QFW	D-DX-LOCAL	C.W.R.A. WAPR
Sturgeon Bay	WI	145.050	WIDC	W9AIQ-1	N-NODE-TheNetX1JR2	DCARC WAPR
Sturgeon Bay	WI	145.050	WISTB	W9AIQ-7	N-NODE-TheNetX1JR2	DCARC WAPR
Sugar Camp	WI	144.930	WISC	WB9JGE-5	N-NODE-TheNet	WAPR WAPR
Sugar Camp	WI	50.740	#SC6	K9MLD-6	N-NODE-TheNet	WAPR WAPR
Sugar Camp	WI	446.100	#SC4	Proposed	link to U.P. of Michigan	
Tomah	WI	50.620	#TOMA6	N9SNJ-6	N-NODE-TheNet	W.I.N WAPR
Tomah	WI	145.010	WIZZK	KA9ZZK-2	N-NODE-TheNet	KA9ZZK WAPR
Tomah	WI	145.610	WITOMA	N9SNJ-6	N-NODE-TheNet	W.I.N WAPR
Tomahawk	WI	50.740	#TOM6	K9MLD-3	N-NODE-TheNet	K9MLD WAPR
Wausau	WI	50.740	#WAS6M	N9CLE-6	N-NODE-TheNet	N9CLE WAPR
Wausau	WI	145.010	WIAUW	N9CLE-1	N-NODE-TheNet	N9CLE WAPR
Wausau	WI	145.500	WAUSD	KC9NW-2	N-NODE-TheNet	KC9NW WAPR
Wausau	WI	145.630	WIAUS	KC9NW-1	N-NODE-TheNet	KC9NW WAPR
Wittenberg	WI	145.710	WITTT	K9AEG-5	N-NODE-TheNetX1JR4	K9AEG * WAPR
Wittenberg	WI	446.200	#WIT4	K9AEG-6	N-NODE-TheNetX1JR4	K9AEG * WAPR

Note: D=Digipeater, G=Gateway, K=KA Node, M=BBS, N=Network (ARRL Codes)

A # Preceding the Alias denotes a Backbone/Hidden Node

A * Before the source denotes updated listings for 1995

(Note: Listings with a * will be forwarded to the ARRL for the Repeater Dir)

Send Updates and Coordination Requests to KE9LZ Revised 11/95

Steve McDonough (KE9LZ)

445 S. St. Bernard Dr.

De Pere, WI 54115

Using the Wisconsin Network

by Andy Nemec, KB9ALN

In the past editions of "Using the Wisconsin Network", we have devoted a fair amount of space to the operation of "TheNet" Nodes, and how to use them. While this is important to knowing the network, there are other types of stations you may encounter on your travels. We will try to cover most anything you are likely to find, and attempt to give some practical background information for you.

We will start with an introduction to one of the more mysterious types of stations you may encounter, the TCP/IP station. An ever-increasing number of hams are exploring this mode, and chances are you may encounter a station using it. Once we get familiar with it, we will move on to examples of TCP/IP Amateur Radio stations and show you how to use them.

What the heck is TCP/IP, anyway?

TCP/IP stands for Transport Control Protocol / Internet Protocol. I know, that tells you what the letters mean, but just what is it? Well, surprisingly enough, you really don't need to know too much about the terminology to get the idea of what it is basically about.

You might remember from one of the earlier editions of this series a discussion of "Protocols". In case you might have forgotten about this, we'll review. A protocol, in computer terms, is the method or language that computers use to pass information back and forth. A computer can use one or several methods to speak to another computer. The important thing is that the computers must both be speaking the same language at the same time and speed.

Most Amateur packet radio stations use a protocol, or specific method to communicate with each other called AX.25. This method of communication was adapted from Ma Bell (AT&T) for use on Amateur radio. "TheNet" Nodes use a variation of this protocol called "Net/Rom" to exchange information.

Although they work OK in Amateur radio, these protocols are not widely used in the rest of the computer world. You have heard of the "Internet", the global network of interconnected computers. These computers all need a standard set of protocols in order to communicate. The standard set of protocols used is referred to as "TCP/IP". Amateur Radio has adapted TCP/IP protocols, and others, to communicate via packet radio.

Amateur Radio TCP/IP Stations are also capable of communicating with the AX.25 protocol. This is the legally recognized protocol for Amateur Radio, so all of the TCP/IP Packets are "Buried" in an AX.25 packet. This also means that someone who only uses AX.25 can communicate with a TCP/IP station (though they may not be able to use all of it's features).

Why TCP/IP?

One of the main attractions of using TCP/IP might be already apparent. Because it is possible for the computer to communicate with a world-wide network using TCP/IP, the opportunities become seemingly endless. Stations that are part of a Amateur Radio TCP/IP network have greater flexibility of operating, providing the operator with more than the usual mailbox and keyboard services. The computer becomes an integral part of a packet station with TCP/IP, because the computer is "connected" to another computer. With standard AX.25, TNC's are connected, typing is done, and TNC's are then disconnected. Your computer operates as little more than a "dumb terminal".

Consider what is possible amongst computers using TCP/IP:

- Standard keyboard chats
- Standard "PBBS" type mailbox for AX.25 users
- Automated Mail delivery to other TCP/IP stations, AX.25 mailboxes, and BBS's
- Automated message forwarding
- Access (limited) to a computer's hard drive
- Ability to transfer text and binary files simply and easily (including Wave, GIF, BMP, COM, and EXE files, to name a few)
- Ability to test radio paths before using them
- Possibility of receiving special-interest "Newsgroups" by automated mail
- Extensive Remote Sysop-ing of the station
- Possibility of connection to the Internet
- Ability to carry on a multi-station conference disussion
- Possibility of networking computers in your own home, so that you may operate your packet station from outside of the shack

Yellow Thunder Amateur Radio Club

WB9FDZ (Original Club Call) • K9ODK (Robert L. Prine Memorial Call)



Raymond J. Matlosz, N9MLZ, Secretary

450 West 2nd Street • Reedsburg, WI 53959



The November 15, 1995 meeting of the Yellow Thunder Amateur Radio Club, Inc., was called to order at 7:40 p.m. by club president Steve Schulze, N9UDO.

The minutes of the last meeting, as published in the BSSS, were accepted. Financial report was given by Jim Decker, WB9UQT.

OLD BUSINESS: The Holiday Party Committee, in the person of Bill Hommel, KA9QFJ reported that the Holiday Party will be held at the Old Highway House on Friday December 15, 1995 at 7:30 p.m., cocktails at 6:30 p.m. Cost will be seven dollars per person based on a crowd of 30 people. MARA will have their party at the Heritage House in Madison on Monday December 11th with a cost ranging from 6-8 dollars depending on when you get the ticket and your membership status.

NEW BUSINESS: Bill Klinkner, N9KXX read the thank you card he received from the family of L.J. HEMMER, WB9TFJ who became a silent key on October 25th. Several members attended the memorial service held in Madison on October 28th. The club donated \$250.00 to Access to Independence in memory of L.J. The club received catalogs from ICOM, CQ and AES. It is still not sure if the club will be able to continue meeting at the Baraboo Civic Center. Where ever the club meets, the meeting dates for 1996 are Jan 16, Feb 14, Mar 14, Apr 16, May 15, Jun 13, Jul 16, Aug 14, Sep

12, Oct 15, Nov 13, with the Holiday party scheduled for Friday December 13, 1996.

Buck night winner was Duane Grotophorst, KA9HKL, who was not present.

The meeting adjourned at 8:15 p.m. A packet station was set up by Bill Klinkner following the meeting for the evening's program.

The next meeting will be held Friday December 15, 1995 at 7:30 p.m. at the Old Highway House. 6:30 p.m. for cocktails. Cost will be about \$7.00 per person.

Sincerely,

Raymond J. Matlosz, N9MLZ, Secretary

The following members and guest were present:

Bill Hommel	KA9QFJ	Baraboo
Steve Schulze	N9UDO	Baraboo
Raymond Matlosz	N9MLZ	Reedsburg
Bob Baker	KB9LAZ	LaValle
Len Wagner	N9XJG	Baraboo
Ken Johnson	K9DZG	Mazomanie
Jim Decker	WB9UQT	Baraboo
Dave Owen	N9TUU	Wonebec
Thomas Harrison	N9PQJ	Reedsburg
Bill Klinkner	N9KXX	Sauk City
Anne Klinkner	N9PQL	Sauk City

-The ability to have a TCP/IP station operate as a Network Node

And that is where most of us will get our first exposure to a TCP/IP station, as a network node. Now that you know a little bit about them, we can devote some space to a discussion of using one of these stations. Look for that in the next edition of "Using the Wisconsin Network". Until then, 73 from Andy, KB9ALN.

Instructor Award Nominations Open

Nominations are open for ARRL Instructor of the Year awards: the ARRL

Herb S. Brier award (nonpaid volunteer instructor); the ARRL Professional

Educator of the Year (paid, professional teacher); and the ARRL Professional

Instructor of the Year (paid, but not certified, teacher). Send nominations to

your ARRL Section Manager by January 31, 1996.

(Wisconsin SM: Rich Regent, K9GDF, 5003 South 26th Street, Milwaukee, WI 53221.)

- The ARRL Letter, 11/9/95

The Vice-President once turned down an invitation to a dinner honoring someone by saying. Sorry, I can't be there, but fortunately at the last minute I thought of an excuse.

The key to getting ahead is setting aside eight hours a day for work and eight hours a day for sleep, and making sure they're not the same hours.

How did a fool and his money get together in the first place?

An Irish Toast. May you have the hindsight to know where you've been, the foresight to know where you're going and the insight to know when you're going too far.

It is a given that the 2nd hardest thing in the world is getting a pregnant elephant into a Volkswagon (bug). However, the hardest thing is GETTING AN ELEPHANT PREGNANT IN A VOLKSWAGON.

Did you hear about the woman who poured margaritas in her bird-bath? Enough tequila mockingbird.

Slogan for a shoe store in Huntsville, Ala., specializing in custom-made shoes and arch supports: "The Wizard of AHHHs."

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WANTED: VFO and manual or copy of manual for a t-50 Knight Transmitter. Also Wanted QRP rigs and any other radio equipment. Millwar Christanson, 424 W. Pine, Sturgeon Bay, WI 54235. (414) 743-1310.

FOR SALE: Colorful United States Stamps. 100 all different. \$1.00 postpaid. Richard Regent, K9GDF, 5003 South 26th St., Milwaukee, WI 53221.

A company in Madison, Wis., that specializes in leather-covered furniture is called "Hide & Seat."

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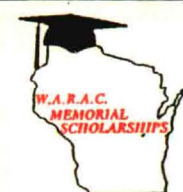


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Baraboo, WI 53913

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The Badger State Smoke Signals Shopper's Guide

SWAPFESTS



1995 WINNERS:
Timothy J. Czarwonski, WO9U, Chetek
Steve D. Miller, KB9DFE, Spooner
Karen M. Schneider, N9SVA, Appleton

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SWAPFEST 96

July 13, 1996

(Held every July)

American Legion Park

Shepard Avenue • Oak Creek, WI

(414) 762-3235

P. O. Box 102

Extension 58

South Milwaukee, WI 53172

Fox Cities Hamfest

Starlite Club, Hwy. 55 north of Kaukauna

HAMFEST INFO:

Dan Vanevenhoven, N9LV5
2410 E. Newberry Ct.
Appleton, WI 54915
414-739-5101

EXAM INFO:

Larry Siebers, KD9IA
414-788-3823

Lakeshore Hamfest

and Computer Swapfest

Manitowoc County Expo

Intersection of Hwys. 42-151 and I-43 on Cty. Hwy. R

Saturday, May 11, 1996

For more information, call:

Glenn, AA9MT: 414-684-7096

Red, N9GHE: 414-684-9097 (nights)

ManCoRad Radio Club • P.O. Box 204 • Manitowoc, WI 54221-0204

HAMFEST & COMPUTER EXPO

ANTIQUÉ RADIO SHOW

SATURDAY, AUGUST 24, 1996

8 A.M. TO 3 P.M.

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19th Annual CWRA Swapfest

Sunday, June 9, 1996

8 a.m. to 2 p.m.

UNIVERSITY CENTER, U.W. STEVENS POINT

Info: John Kalina, KA9DJA

(715) 344-1407

1240 North Point Drive

Stevens Point, WI 54481

EAU CLAIRE Amateur Radio Club SWAPFEST

1996 Date Not Set

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Liz Searing

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8 a.m. to 1 p.m. • Circle B Recreation Center

Intersection of Highway 60 and County I

Exams by Badger Examiners, c/o Gary Sharbuno,

5119 W. Willow Rd., Brown Deer, WI 53222

Swapfest sponsored by the Ozaukee Radio Club

11448 N. Laguna Drive • Mequon, WI 53092

Kettle Moraine Radio Amateurs

SWAPFEST

Sunday, October 13, 1996

Waukesha County Expo Center

Info: KMRA Swapfest S46 W32264 Highview Rd.

Waukesha, WI 53188-9276

Red Cedar Repeater Association, Inc.

AUCTION

February 27, 1996 • 7:00 p.m.

American Legion Post 53 • 634 Water Street

Eau Claire, WI

CONTACT:

Steve Hart, KA9OMC
E616 810th Ave.

715-665-2374
Knapp, WI 54749

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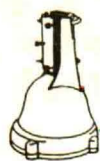
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